

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	312	715/523.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/06 18:48
L3	323	715/788.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/06 18:48
S1	211	(style near3 sheet) and (output near3 device)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/06 17:35
S29	312	715/523.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/18 17:52
S30	1997	715/513.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/18 17:45
S31	557	715/517.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/18 17:45
S32	12871	request\$5 near5 document	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/18 17:53
S33	38	(output near5 device) with ("style sheet" stylesheet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/18 17:57
S34	7088	S32 and (format\$5 styl\$5) and device	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/18 18:04

S35	2426	S34 and (output near5 device)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/18 17:57
S36	1160	S32 and ((format\$5 styl\$5) near5 document) and (output near3 device)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/18 17:59
S37	52	S36 and ((characterist\$5 capabilit\$5) near5 (output near3 device))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/18 18:00
S38	565	S32 and ((format\$5 styl\$5)near5 document) and ((capabilit\$5 characterist\$5) near4 device)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/18 20:12
S40	23	merg\$5 near5 (web near4 document)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 17:17
S42	35	(display\$5 near5 (document file)) with pager	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 19:50
S43	31	(stylesheet\$4 "style sheet") same quer\$5 same device	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/03 17:14
S44	2021	715/513.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/03 17:39

S45	48	S44 and ((quer\$5 interrogat\$5) near5 device)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/03 17:44
S46	390	stylesheet and (quer\$5 same device)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/03 17:47
S47	941	715/530.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/03 17:48
S48	561	715/517.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/03 17:48



STIC EIC 2100 Search Request Form

153953

Today's Date: 5/19/05

What date would you like to use to limit the search?

Priority Date: 4/24/97

Other:

Name Conig-Lac Huyen
AU 2178 Examiner # 76270
Room # RND 3AG5 Phone 2-4125
Serial # 09/479,979

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other Google, ProQuest

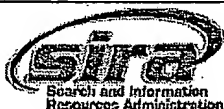
Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Interrogating the output device to determine a set of capabilities of the output device in response to a request for a document to select one of the style sheets based upon the capabilities of the output device and ^{for} format the document accordingly.

STIC Searcher C. Wong Phone 2-2-3513
Date picked up 5-19 Date Completed 5-19-05



File 348:EUROPEAN PATENTS 1978-2005/May W02
(c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050512,UT=20050505
(c) 2005 WIPO/Univentio
File 324:German Patents Fulltext 1967-200519
(c) 2005 Univention

Set	Items	Description
S1	1606333	CAPABIL? OR CAPABLE? OR ABLE OR ABILIT?
S2	144297	S1(5N) (DEVICE? ? OR TERMINAL? ? OR COMPUTER? ? OR MICROCOM- PUT? OR MICROPROCESS? OR PC OR PCS OR WORKSTATION? OR WORK()S- TATION? ?)
S3	16360	S1(5N) (PROCESS?R? ? OR CPU OR CPUS OR PCU OR PCUS)
S4	1864370	QUERY? OR QUERIE? ? OR INTERROGAT? OR INQUIR? OR ENQUIR? OR REQUISITION? OR REQUEST? OR ELICIT?
S5	265561	FORMAT OR FORMATS OR FORMATED OR FORMATING OR FORMATT? OR - REFORMAT? OR LAYOUT? OR LAY()OUT? ?
S6	5038	S2:S3(20N)S4
S7	206	S6(20N)S5
S8	1806016	REQUEST?
S9	18300	S8(3N) (DOCUMENT? ? OR WEBPAGE? OR PAGE? ? OR PUBLICATION? - OR FILE OR FILES OR REPORT? ? OR ARTICLE? ? OR TEXTFILE?)
S10	11868	S8(3N) (CONTENT? ? OR ECONTENT? ? OR OBJECT? ? OR TEXTDATA)
S11	35300	S8(3N)DATA
S12	47	S7(20N)S9:S11
S13	3364	S2:S3(10N)S4
S14	111	S13(20N)S5
S15	24	S14(20N)S9:S11
S16	23	S12 NOT S15
S17	23	IDPAT (sorted in duplicate/non-duplicate order)
S18	23	IDPAT (primary/non-duplicate records only)

15/5,K/23 (Item 13 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00450367 **Image available**

SYSTEM AND METHOD FOR SELECTION AND RETRIEVAL OF DIVERSE TYPES OF VIDEO
DATA ON A COMPUTER NETWORK
SYSTEME ET PROCEDURE DE SELECTION ET D'EXTRACTION DE DIVERS TYPES DE DONNEES
VIDEO DANS UN RESEAU D'ORDINATEURS

Patent Applicant/Assignee:

INTERVU INC,

Inventor(s):

KENNER Brian,
COLBY Kenneth W,
BROWNELL Lonnie J,
WEATHERSBY Guy P,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9840831 A1 19980917

Application: WO 98US4976 19980313 (PCT/WO US9804976)

Priority Application: US 9739086 19970314

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU ID
IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL
PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW
SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE
IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class: G06F-017/30

International Patent Class: G06F-09:46

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 13095

English Abstract

A system and method for the selection and retrieval of various types of video data from distributed delivery sites calls for the deployment of "Smart Mirror" sites throughout a network, each of which maintains a copy of certain data managed by the system. Each "Smart Mirror" site maintains copies of the data in several alternative file formats. Every user is assigned to a specific delivery site based on an analysis of network performance with respect to each of the available delivery sites.

Generalized network performance data is collected and stored to facilitate the selection of additional delivery sites and to ensure the preservation of improved performance in comparison to traditional networks. The appropriate file format is automatically selected based on the capabilities of a user terminal making a request for data.

French Abstract

L'invention concerne un systeme et un procede de selection et d'extraction de plusieurs types de donnees video provenant de sites de distribution repartis, le systeme et le procede exigeant le deploiement de sites "Smart Mirror" ("Miroir Intelligent") a travers un reseau, et chacun de ces sites conservant une copie de certaines donnees gerees par le systeme. Chaque site "Smart Mirror" conserve des copies des donnees dans plusieurs formats de fichiers de remplacement. On attribue a chaque utilisateur un site de sortie specifique sur la base d'une analyse du

comportement du reseau par rapport a chacun des sites de sortie possibles. Des donnees generalisees de comportement de reseau sont recueillies et mises en memoire pour faciliter la selection de sites de sortie supplementaires et pour garantir la preservation d'un comportement ameliore, compare aux reseaux traditionnels. Le format de fichier approprie est automatiquement selectionne sur la base des capacites d'un terminal utilisateur faisant une demande de donnees.

English Abstract

...to ensure the preservation of improved performance in comparison to traditional networks. The appropriate file **format** is automatically selected based on the **capabilities** of a user **terminal** making a **request** for **data**.

15/5,K/24 (Item 14 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00395682 **Image available**

VIDEO PROCESSING

TRAITEMENT D'IMAGES VIDEO

Patent Applicant/Assignee:

BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY,
BURGESS Gary Dean,

Inventor(s):

BURGESS Gary Dean,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9736425 A1 19971002

Application: WO 97GB641 19970307 (PCT/WO GB9700641)

Priority Application: GB 96302148 19960328; GB 966511 19960328

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU
IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL
PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN YU GH KE LS MW SD SZ
UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC
NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class: H04N-007/15

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5020

English Abstract

Image processing apparatus comprising input means (51) for receiving input signals from n videoconferencing terminals, where n is an interger greater than or equal to 3, each input signal representing frames of a video signal, processing means for forming n composite signals each representing different combinations of at least two of the input signals, and means for transmitting the composite signals to the relevant videoconferencing terminal.

French Abstract

L'invention porte sur un appareil de traitement d'images comportant des moyens d'introduction (51) des signaux d'entree de n terminaux de videoconference, n etant un entier superieur ou egal a 3, chacun de ces signaux d'entree representant les trames d'un signal video; elle porte egalement sur des moyens de traitement servant a former n signaux

composites representant chacun differentes combinaisons d'au moins deux des signaux d'entree, ainsi que sur des moyens de transmission des signaux composites vers le terminal de videoconference concerne.

Fulltext Availability:
Detailed Description

Detailed Description

... is capable of transmitting CIF or QCIF pictures. On commencement of a videoconference all participating **terminals** signal their **capabilities** to the MCU which then signals to the terminals to **request** the **data** in QCIF **format** . .

According to the H.261 standard, images are divided into blocks 22 as shown in...

18/5,K/5 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00860140

METHOD AND APPARATUS FOR SERVER-INDEPENDENT CACHING OF
DYNAMICALLY-GENERATED CUSTOMIZED PAGES
VERFAHREN UND APPARAT ZUM SERVERUNABHANGIGEN CACHEN VON DYNAMISCH
ERSTELLTEN ANGEPASSTEN SPEICHERSEITEN
PROCEDE ET APPAREIL CORRESPONDANT DE MISE EN ANTEMEMOIRE INDEPENDAMMENT
D'UN SERVEUR DE PAGES PERSONNALISEES PRODUITES DE FACON DYNAMIQUE
PATENT ASSIGNEE:

C/Net, Inc., (2329230), 150 Chestnut Street, San Francisco, CA 94111,
(US), (Proprietor designated states: all)

INVENTOR:

ROSENBERG, Jonathan, 18 Wellington Drive, Annandale, NJ 08801, (US)
GANDHI, Munish, 611 West Porter Way, Bridgewater, NJ 08807, (US)

LEGAL REPRESENTATIVE:

Cross, Rupert Edward Blount et al (42891), BOULT WADE TENNANT, Verulam
Gardens 70 Gray's Inn Road, London WC1X 8BT, (GB)

PATENT (CC, No, Kind, Date): EP 859986 A1 980826 (Basic)
EP 859986 A1 990113
EP 859986 B1 030305
WO 97017662 970515

APPLICATION (CC, No, Date): EP 96940293 961106; WO 96US17687 961106

PRIORITY (CC, No, Date): US 554168 951106

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: G06F-017/30

CITED PATENTS (EP B): EP 574900 A; US 5473772 A

CITED REFERENCES (EP B):

PATENT ABSTRACTS OF JAPAN vol. 095, no. 007, 31 August 1995 & JP 07
105113 A (CANON INC), 21 April 1995

IEEE & COMPUTER MAGAZINE, September 1993, OBRACZKA et al., "Internet
Resource Discovery Services", pages 13-18.

Wessels, Duane, "Intelligent Caching for World-Wide Web Objects",
Proceedings of INET-95, 07-August 1995;

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 011212 A1 Date of dispatch of the first examination
report: 20011024

Application: 970827 A1 International application (Art. 158(1))

Oppn None: 040225 B1 No opposition filed: 20031208

Grant: 030305 B1 Granted patent

Change: 020807 A1 Title of invention (French) changed: 20020617

Lapse: 031008 B1 Date of lapse of European Patent in a
contracting state (Country, date): NL
20030305,

Application: 980826 A1 Published application (A1with Search Report
;A2without Search Report)

Examination: 980826 A1 Date of filing of request for examination:
980603

Search Report: 990113 A1 Drawing up of a supplementary European search
report: 981202

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200310	371
CLAIMS B	(German)	200310	366
CLAIMS B	(French)	200310	461

SPEC B (English) 200310 3730
Total word count - document A 0
Total word count - document B 4928
Total word count - documents A + B 4928

...SPECIFICATION platform (computer type) of the client computer 22, or some other attribute that specifies the **format capabilities** of the client **computer 22**.

The memory 44 also stores a caching page generator program 50. This program is invoked when a customized **file request** cannot be matched to an existing set of files stored on the server computer 24...

18/5,K/6 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01136580 **Image available**

VIDEO STREAMING

LECTURE EN TRANSIT DE FICHER VISUEL

Patent Applicant/Assignee:

BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY, 81 NEWGATE STREET,
LONDON EC1A 7AJ, GB, GB (Residence), GB (Nationality), (For all
designated states except: US)

Patent Applicant/Inventor:

KAMARIOTIS Othon, 6 IASSONOS STREET, PALIO, FALIRO, GR-17564 ATHENS, GR,
GR (Residence), GR (Nationality), (Designated only for: US)

Legal Representative:

BRADLEY David William (agent), BT GROUP LEGAL INTELLECTUAL PROPERTY
DEPARTMENT, PP C5A, BT CENTRE, 81 NEWGATE STREET, 120 HOLBORN, LONDON
EC1A 7AJ, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200459979 A1 20040715 (WO 0459979)

Application: WO 2003GB5643 20031230 (PCT/WO GB03005643)

Priority Application: GB 200230328 20021231

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK
LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC
SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04N-007/24

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8047

English Abstract

A file server (1) in communication with a remote client (e.g. PPC 7, Mobile phone client 5) receives images from a camera (2) or video store (4) as full frame images. A selection and compression programme enable the transmission of bit streams defining a compressed video image for display on the comparatively small screen of the mobile client and

permits simple virtual zoom and frame area selection to be viewed by the user. Compression and selection algorithms enable the user to select an angle view having a corresponding number of pixels to the local screen but derived from the whole of the original frame and fully compressed and with varying selections of compression between down to selection by the file server (1) of a portion of the original frame having the same number of pixels. The system may find use particularly where bandwidth between the client and the file server is limited so that it is unnecessary for the whole of the video frame to be transmitted to the client and only limited return signalling from the client to the server is required.

French Abstract

L'invention concerne un serveur de fichier (1), communiquant avec un client distant (par exemple, assistant numerique personnel (7), client avec telephone mobile (5)), qui recoit des images depuis un appareil de prise de vues (2) ou une memoire video (4) sous forme d'images completes. Un programme de selection et de compression assure la transmission de trains de bits definissant une image video comprimee aux fins d'affichage sur l'ecran comparativement reduit du client mobile et permet la selection simple de zoom virtuel et de zone d'image, aux fins de visualisation par l'utilisateur. Des algorithmes de compression et de selection permettent a l'utilisateur de selectionner un angle de vue a nombre de pixels correspondant par rapport a l'ecran local, mais a partir de l'ensemble de l'image originale, avec compression integrale, et selections variables de compression jusqu'a la selection par le serveur de fichier (1) d'une partie de l'image originale ayant le meme nombre de pixels. Le systeme peut etre utilise en particulier lorsque la largeur de bande entre le client et le serveur de fichier est limitee, ce qui permet de ne pas transmettre la totalite de l'image video au client et d'utiliser seulement une signalisation de retour limitee depuis le client vers le serveur.

Legal Status (Type, Date, Text)

Publication 20040715 A1 With international search report.

Fulltext Availability:

Detailed Description

Detailed Description

... camera derived images. The device is arranged to convert data received or stored into a **format** capable of being displayed on a **requesting data** terminal which may be a cellular phone display. The conversion **device** therein has the **ability** to divide a stored or received image into a number of fixed sections whereby signals...

18/5,K/7 (Item 7 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01095658

SYSTEM AND METHOD FOR A CONTEXT-INDEPENDENT FRAMEWORK FOR MANAGEMENT AND EXECUTION OF XML PROCESSING TASKS

SYSTEME ET PROCEDURE DE GESTION ET D'EXECUTION DE TACHES DE TRAITEMENT XML POUR CADRE INDEPENDANT DU CONTEXTE

Patent Applicant/Assignee:

DIMON-HUGBUNADARHUS EHF, Laugavegi 178, IS-Reykjavik 105, IS, IS

(Residence), IS (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

LUDVIKSSON Georg, Skeljanesi 2a, IS-Reykjavik 101, IS, IS (Residence), IS (Nationality), (Designated only for: US)

HAFSTEINSSON Gudmundur, Hagamelur 30, IS-Reykjavik 107, IS, IS
(Residence), IS (Nationality), (Designated only for: US)
BRIEM Gunnlaugur Thor, Skolavordustig 8, IS-Reykjavik 101, IS, IS
(Residence), IS (Nationality), (Designated only for: US)

Legal Representative:

A & P ARNASON (agent), Efstaleiti 5, IS-103 Reykjavik, IS,
Patent and Priority Information (Country, Number, Date):

Patent: WO 200417230 A1 20040226 (WO 0417230)
Application: WO 2003IS24 20030815 (PCT/WO IS03000024)
Priority Application: IS 20026509 20020816; US 2002403641 20020816

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD
SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 13387

English Abstract

A system for a context-independent framework for management and execution of XML processing tasks is provided. The XML processing tasks are executed by a module, herein referred to as the XSA Engine, according to a predefined set of instructions provided as electronic documents written in a special purpose, XML-based, programming language. The instruction sets contain references to, and control the execution of, instances of three classes of processing modules, which independently accomplish an XML processing subtask and jointly accomplish an XML processing task. The framework is decoupled from any specific execution context, meaning that standardized XML processing can be applied in almost any desired application. The special purpose programming language enhances productivity for development of XML processing tasks as compared to using general purpose programming languages, and diminishes the need for writing custom code to link different types of XML processing subtasks to accomplish an XML processing task.

French Abstract

L'invention concerne un systeme de gestion et d'execution de taches de traitement XML pour cadre independant du contexte. Les taches de traitement XML sont executees par un module, designe sous le nom de moteur XSA, a partir d'un ensemble predefini d'instructions sous forme de documents electroniques ecrits dans un langage de programmation XML specifique. Les ensembles d'instructions contiennent des references et commandent l'execution d'instances de trois classes de modules de traitement, qui executent independamment une sous-tache de traitement XML et executent conjointement une tache de traitement XML. Le cadre est decouple de tout contexte d'execution specifique, ce qui permet d'appliquer le traitement XML standardise dans presque toutes les applications desirees. Le langage de programmation specifique ameliore la productivite pour la mise au point de taches de traitement XML, par

rapport aux langages de programmation a usage general, et reduit la necessite d'ecriture d'un code personnalise pour relier differents types de sous-taches de traitement XML afin d'executer une tache de traitement XML.

Legal Status (Type, Date, Text)

Publication 20040226 A1 With international search report.

Publication 20040226 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Fulltext Availability:

Detailed Description

Detailed Description

... capable of transforming the generic source XIVIL data from the backend system to many different **formats** suitable for display in each of the networked client **devices**. The system also contains Sinks **capable** of delivering the tailored version of the **content** back to the **requesting** client device through the adapter from which the **request** came. The system also contains specific XSA electronic documents, written in a special purpose programming...

18/5,K/8 (Item 8 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01094086

COMPUTERIZED SYSTEMS AND METHODS OF FORMATTING AND TRANSFERRING DATA
BETWEEN DISPARATE APPLICATIONS
SYSTEMES INFORMATISES ET PROCEDES DE FORMATAGE ET DE TRANSFERT DE DONNEES
ENTRE DES APPLICATIONS DISPARATES

Patent Applicant/Assignee:

THE CONSULTANTS REGISTRY, Suite 220, 2944 North 44th Street, Phoenix, AZ
85018-7257, US, US (Residence), US (Nationality), (For all designated
states except: US)

Patent Applicant/Inventor:

GRAHAM Stewart, 302 Weathersford Court, Lake Bluff, IL 60044, US, US
(Residence), US (Nationality)

Legal Representative:

GOLTRY Michael W (agent), Suite 260, 340 East Palm Lane, Phoenix, AZ
85004, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200415523 A2-A3 20040219 (WO 0415523)

Application: WO 2003US23992 20030731 (PCT/WO US03023992)

Priority Application: US 2002213786 20020807

Parent Application/Grant:

Related by Continuation to: US 2002213786 20020807 (CON)

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD
SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: G06F-017/60
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 3703

English Abstract

A first one of a network of computers implements a first one of disparate applications. A second one of the network of computers implements a second one of the applications. The first one of the computers outputs first data in response to implementation of the first one of the applications. The second one of the computers outputs second data in response to implementation of the second one of the applications. The first one of the computers is incapable of processing the second data by implementing the first one of the applications. The second one of the computers is incapable of processing the first data by implementing the second one of the applications. The system incorporates a third set of instructions, which is embedded into the first one of the applications. The third set of instructions permits the first one of the computers to receive the second data from the first one of the computers and format the second data into formatted second data, and permits the first one of the computers to format the first data into formatted first data and submit the formatted first data to the second one of the computers.

French Abstract

Selon l'invention, un premier ordinateur relevant d'un reseau d'ordinateurs met en oeuvre une premiere application relevant d'une pluralite d'applications disparates. Un second ordinateur relevant de ce reseau d'ordinateurs met en oeuvre une seconde application relevant de cette pluralite d'applications. Le premier de ces ordinateurs produit en sortie des premieres donnees en reponse a la mise en oeuvre de la premiere de ces applications. Le second de ces ordinateurs produit en sortie des secondes donnees en reponse a la mise en oeuvre de la seconde de ces applications. Le premier ordinateur est incapable de traiter les secondes donnees par mise en oeuvre de la premiere application. Le second ordinateur est incapable de traiter les premieres donnees par mise en oeuvre de la seconde application. Le systeme comprend un troisieme ensemble d'instructions integre dans la premiere application. Ce troisieme ensemble d'instructions permet au premier ordinateur de recevoir les secondes donnees en provenance du second ordinateur et de formater ces secondes donnees en secondes donnees formatees, et permet au premier ordinateur de formater les premieres donnees en premieres donnees formatees et de soumettre ces premieres donnees formatees au second ordinateur. Les secondes donnees formatees peuvent etre traitees par le premier ordinateur en reponse a la mise en oeuvre de la premiere application. Les premieres donnees formatees peuvent etre traitees par le second ordinateur en reponse a la mise en oeuvre de la seconde application.

Legal Status (Type, Date, Text)

Publication 20040219 A2 Without international search report and to be republished upon receipt of that report.
Search Rpt 20040401 Late publication of international search report
Republication 20040401 A3 With international search report.
Republication 20040401 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Fulltext Availability:
Detailed Description

Detailed Description

... receiving data 15A transfer request from computer 12,
computer 13 is responsive submitting 72 the **requested**
data 15A to computer 12. In response to receiving the
requested data 15Ar computer 12 is responsive
implementing 73 application - 20 **formatting** 74 data 15A
into **formatted** data 1SAf which is **capable** of being
processed by **computer** 12 in response to implementation
of application 14f which ends 75 the method.

It will...

18/5,K/9 (Item 9 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01025070 **Image available**

A METHOD AND SYSTEM FOR RECOGNIZING THE DEVICE FORMAT PREFERENCE FOR A
DEVICE ON AN IHDN NETWORK

PROCEDE ET SYSTEME DE RECONNAISSANCE DE PREFERENCE DE FORMAT DE DISPOSITIF
CONCERNANT UN DISPOSITIF SUR UN RESEAU INTERNE DE PARTICULIER

Patent Applicant/Assignee:

KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA
Eindhoven, NL, NL (Residence), NL (Nationality)

Inventor(s):

YASSIN Amr F, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,
ALSAFADI Yasser, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,

Legal Representative:

GROENENDAAL Antonius W M (agent), Internationaal Octrooibureau B.V.,
Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200355173 A1 20030703 (WO 0355173)

Application: WO 2002IB5229 20021205 (PCT/WO IB0205229)

Priority Application: US 200128381 20011221

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK
TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-029/06

International Patent Class: H04L-012/28

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 3006

English Abstract

The invention relates to a method of and system for recognizing the device format preference for excerpted electronic program guide information for a device on an IHDN network. The device connects to the network, which has an XML data repository. An XSL style sheet request for excerpted EPG information, including a device format preference, is sent from the device over the IHDN network to an XSLT engine in communication with the XML data repository. The device format preference from the XML data repository on the network is used so that the network can recognize the device. It also further relates to extracting the requested excerpted EPG information by the XSLT engine from the XML data repository, formatting the excerpted EPG information in accordance with the data format preference of the device, and sending the excerpted EPG information by the XSLT engine to the device over the IHDN network.

French Abstract

L'invention concerne un procede et un systeme destines a reconnaitre la preference de format de dispositif concernant une information de guide electronique de programme (EPG) extraite destinee a un dispositif d'un reseau interne de particulier (IHDN). Le dispositif se connecte au reseau, ce reseau possedant contenant une base de donnees XML. Une requete de feuille de style XLS concernant une information EPG extraite, comprenant une preference de format de dispositif, est envoyee depuis le dispositif sur le reseau IHDN a un moteur XSLT en communication avec la base de donnees XML. La preference de format de dispositif provenant de la base de donnees XML sur le reseau est utilisee de facon que le reseau puisse reconnaitre le dispositif. L'invention concerne aussi un procede consistant a extraire l'information EPG requise a l'aide du moteur XSLT dans la base de donnees XML, a formater l'information EPG extraite selon la preference de format de donnees du dispositif, et a envoyer l'information EPG, extraite a l'aide du moteur XSLT, sur le reseau IHDN.

Legal Status (Type, Date, Text)

Publication 20030703 A1 With international search report.

Fulltext Availability:

Detailed Description

Detailed Description

... to each client, the server must be configured in advance to accommodate the required XML **format** for every client **requesting** the **data**. For example, in a typical home digital network wherein the server is providing the EPG data for different **devices**, each **device** may have different **ability** to handle an XML document or different set of information from an XML repository. Thus...

18/5,K/10 (Item 10 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00973302 **Image available**

METHOD AND SYSTEM FOR DISPLAYING GRAPHIC INFORMATION ACCORDING TO DISPLAY CAPABILITIES

PROCEDE ET SYSTEME D'AFFICHAGE D'INFORMATIONS GRAPHIQUES SELON DES CAPACITES D'AFFICHAGE

Patent Applicant/Assignee:

BITFLASH GRAPHICS INC, 1410 Blair Place, 8th Floor, Gloucester, Ontario
K1J 9B9, CA, CA (Residence), CA (Nationality), (For all designated
states except: US)

Patent Applicant/Inventor:

CHARPENTIER Frederic Jean-Luc, 10 Wedgewood Court, Gloucester, Ontario
K1B 4B7, CA, CA (Residence), CA (Nationality), (Designated only for:
US)

Legal Representative:

FEUTLINSKE Robert K (et al) (agent), Kirby Eades Gale Baker, Box 3432,
Station D, Ottawa, Ontario K1P 6N9, CA,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200303297 A1 20030109 (WO 0303297)

Application: WO 2002CA945 20020625 (PCT/WO CA0200945)

Priority Application: US 2001301423 20010629

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06T-001/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 9046

English Abstract

Graphics information (such as text, icons, images, etc.) is modified from a received format to a format adapted for displaying the graphics information on a computing device. Modification of the graphics information is based on characteristics of the computing device that represent capabilities of a display of the computing device. The graphics information is generated in a module to convert the graphics information into a format that is suitable for display on the computing device. The module is accessed to obtain the graphics information therefrom. The graphics information is obtained from the module according to the characteristics of the computing device such that the obtained graphics information is in a format adapted for display on the computing device.

French Abstract

Cette invention porte sur des informations graphiques (telles que du texte, des icones, des images, etc.) modifiees d'un format recu a un format adapte a l'affichage des informations graphiques sur un dispositif de calcul. Les modifications des informations graphiques dependent des caracteristiques du dispositif de calcul qui representent les capacites d'un affichage du dispositif de calcul. Les informations graphiques sont generees dans un module afin qu'elles soient converties dans un format permettant l'affichage sur le dispositif de calcul. On accede au module pour obtenir les informations graphiques. Ces dernieres sont obtenues a partir du module selon les caracteristiques du dispositif de calcul de maniere que les informations graphiques obtenues soient dans un format adapte a l'affichage sur le dispositif de calcul.

Legal Status (Type, Date, Text)

Publication 20030109 A1 With international search report.

Examination 20030313 Request for preliminary examination prior to end of
19th month from priority date

Fulltext Availability:
Claims

Claim

... a request generation mechanism for providing a request for the graphics information to said graphics **data** storage, said **request** including an identifier for the graphics information.

23 The system according to claim 22 wherein said **request** generation mechanism includes:

a characteristic set mechanism for creating the set of display characteristics of the computing **device** based on display **capabilities** of the computing **device**, the set of display characteristics being provided to said graphics **data** storage with said **request**.

24 The system according to claim 21 wherein said interpretation mechanism includes:

a **format** conversion mechanism for converting each of said plurality of graphic elements to the processing format...

18/5,K/12 (Item 12 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00933407 **Image available**

MODULAR PERSONAL NETWORK SYSTEMS AND METHODS

SYSTEMES ET PROCEDES DE RESEAUX PERSONNELS MODULAIRES

Inventor(s):

ELLIS Caron S, 1300 Kingwood Place, Boulder, CO 80304, US,

Patent Applicant/Inventor:

ELLIS Michael D, 1300 Kingwood Place, Boulder, CO 80304, US, US
(Residence), US (Nationality)

Legal Representative:

FANUCCI Allan A (et al) (agent), Winston & Strawn, 200 Park Avenue, New York, NY 10166-4193, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200267449 A2-A3 20020829 (WO 0267449)

Application: WO 2002US4947 20020220 (PCT/WO US02004947)

Priority Application: US 2001270400 20010220

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-012/28

International Patent Class: H04Q-007/32; A61B-005/00; A63B-024/00;

G06F-009/44; G06F-003/14

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 46225

English Abstract

We have disclosed a modular personal network (MPN) that includes multiple devices that may be worn, carried, or used in close proximity to a user. The devices communicate wirelessly. Functions of the MPN may be modified by adding or removing components. The MPN may communicate with a personal computer. General purpose devices may include a control unit, a display, a user input, and an audio output. The MPN may provide a variety of functions, including time, communication, entertainment, organization, guidance, athletic, medical, travel, outdoors, identity, security and military. The wireless protocol is preferably based on the Bluetooth or IEEE 802.15 standards.

French Abstract

Cette invention concerne un reseau personnel modulaire qui comprend des dispositifs multiples pouvant etre portees, transportees ou utilisees en etroite proximite avec un utilisateur. Ces dispositifs communiquent par des systemes de transmission sans fil. Les fonctions du reseau personnel modulaire peuvent etre modifiees par l'adjonction et le retrait de composants. Le reseau personnel modulaire peut communiquer avec un ordinateur personnel. Les dispositifs polyvalents peuvent comprendre une unite de commande, un afficheur, une entree utilisateur et une sortie audio. Ce reseau personnel modulaire peut assurer diverses fonctions, notamment des fonctions d'horloge, de communication, de loisirs, d'organisation, de guidage, d'assistance, de gestion de voyages, medicales, de gestion d'actives exterieures, d'identite, de securite et militaires.

Legal Status (Type, Date, Text)

Publication 20020829 A2 Without international search report and to be republished upon receipt of that report.
Search Rpt 20030522 Late publication of international search report
Republication 20030522 A3 With international search report.
Search Rpt 20030522 Late publication of international search report
Examination 20030814 Request for preliminary examination prior to end of 19th month from priority date
Correction 20041111 Corrections of entry in Section 1: under (22) replace "19 February 2002" by "20 February 2002"
Republication 20041111 A3 With international search report.

Fulltext Availability: Detailed Description

Detailed Description

... The message may include request serial number 341. This number may be used by the **requesting** INC and the outputting INC to keep track of multiple pending **requests**. Output **data request** message 340 may include **device** type 316 and **capability** type 317 to inform an INC that supports multiple output
30
functions how to process the **data**. Output **data request** message 340 may also include the data to output 342. The **format** of this data may depend on the type of INC receiving the data and how...

18/5,K/13 (Item 13 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00889702 **Image available**

METHOD AND SYSTEM FOR IDENTIFYING A USER

PROCEDE ET SYSTEME D'IDENTIFICATION D'UN UTILISATEUR

Patent Applicant/Assignee:

THE PHONE PAGES OF SWEDEN AB, Vastra Hamngatan 21, S-411 17 Goteborg, SE,
SE (Residence), SE (Nationality), (For all designated states except:
US)

Patent Applicant/Inventor:

POHJANVUORI Timo, Sveagatan 2C, S-413 14 Goteborg, SE, SE (Residence), SE
(Nationality), (Designated only for: US)
MINBORG Per-Ake, Valebergsvagen 7, S-444 60 Stora Hoga, SE, SE
(Residence), SE (Nationality), (Designated only for: US)

Legal Representative:

BERGENTALL Annika (et al) (agent), Cegumark AB, P.O. Box 53047, S-400 14
Goteborg, SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200223931 A1 20020321 (WO 0223931)
Application: WO 2001SE1939 20010911 (PCT/WO SE0101939)
Priority Application: US 2000660400 20000912

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK
SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04Q-007/22

International Patent Class: H04L-012/56

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description
Claims

Fulltext Word Count: 12344

English Abstract

A data server derives information regarding the identities of users placing calls in a circuit-switched communication network. It performs this task by initially establishing at least one known and trusted identity "seed". The data server uses the trusted identity seed, in conjunction with information regarding calls placed in the circuit-switched communication network, to derive additional user identities. Further, a user device may encrypt its secret identification number before transmitting it to the data server to maintain the secrecy of this information. The data server is additionally configured to modify previously derived identities when the server determines that they have become inaccurate.

French Abstract

Un serveur de donnees deduit des informations concernant les identites d'utilisateurs en effectuant des appels sur un reseau de communication a commutation de circuits. Pour ce faire, le serveur etablit initialement au moins une "graine" d'identite connue et validee. Le serveur de donnees utilise cette graine d'identite validee, en association avec des informations relatives aux appels effectues dans le reseau de communication a commutation de circuits, de maniere a deriver des elements d'identite d'utilisateur supplementaires. En outre, un dispositif utilisateur peut chiffrer son numero d'identification secret

avant de le transmettre au serveur de donnees de maniere a preserver la confidentialite de cette information. Le serveur de donnees est egalement concu pour modifier des identites precedemment deduites lorsqu'il determine que ces identites sont devenues inexactes.

Legal Status (Type, Date, Text)

Publication 20020321 A1 With international search report.

Publication 20020321 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Examination 20020510 Request for preliminary examination prior to end of 19th month from priority date

Fulltext Availability:

Detailed Description

Detailed Description

... such as a phonepage. The data server retrieves the database in step 730. The 0 **request** received in step 71 0 may also include an indication of a user **device** display **capability** ; in this case, the data server may adapt the retrieved **data** **object** to the **requested** **format** .

Alternatively, the database may store the data objects in different formats. In this case, the data server complies with the **request** by retrieving the **data** object having the correct format. Step 750 encrypts the request if requested or necessary. The...

18/5,K/14 (Item 14 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00889229 **Image available**

METHOD AND APPARATUS FOR PROVIDING DEVICE-SPECIFIC FORMATTED DATA TO A PLURALITY OF BROWSER-ENABLED DEVICES

PROCEDE ET APPAREIL PERMETTANT DE FOURNIR DES DONNEES FORMATEES POUR UN DISPOSITIF SPECIFIQUE A UNE PLURALITE DE DISPOSITIFS ACTIVES PAR NAVIGATEUR

Patent Applicant/Assignee:

SMARTSERV ONLINE INC, One Station Place, Stamford, CT 06902, US, US
(Residence), US (Nationality)

Inventor(s):

SANTOSSIO Randy L, 204 New Haven Avenue, Apt 2B, Derby, CT 06418, US,
LA PORTE Gerard, 7 Hillcrest Drive, New Fairfield, CT 06812, US,

Legal Representative:

PERKINS Jefferson (et al) (agent), Piper Marbury Rudnick & Wolfe, P.O.
Box 64807, Chicago, IL 60664-0807, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200223375 A2-A3 20020321 (WO 0223375)

Application: WO 2001US17830 20010601 (PCT/WO US0117830)

Priority Application: US 2000661332 20000913

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8949

English Abstract

A method and system for facilitating communications between a content delivery server and a plurality of browser-enabled devices, including both wired and wireless devices. The method includes the step of initiating a request for data by a user using a browser-enabled device, where the request includes indicia of device and browser type. The request is transmitted from the browser-enabled device to the system's content delivery server across a communication network such as the Internet. The request is received by the content delivery server, which then retrieves the data requested by the user from networked data servers or from a third-party server. The data is formatted by the content delivery server as a function of the indicia of device and browser type. The formatted data is finally transmitted from the content delivery server to the browser-enabled device across the communication network.

French Abstract

L'invention concerne un procede et un systeme permettant de faciliter la communication entre un serveur de distribution de contenu et une pluralite de dispositifs actives par navigateur comprenant des dispositifs avec et sans fil. Ce procede comprend l'etape consistant a declencher une demande concernant des donnees par un utilisateur au moyen d'un dispositif active par navigateur, cette demande comprenant des indices du dispositif et le type de navigateur. La demande est transmise du dispositif active par navigateur au serveur de distribution de contenu du systeme a travers un reseau de communication tel qu'Internet. La demande est recue par le serveur de distribution de contenu, lequel extrait ensuite les donnees requises par l'utilisateur des serveurs de donnees en reseau ou d'un serveur tiers. Les donnees sont formatees par le serveur de distribution de contenu en fonction des indices du dispositif et du type de navigateur. Enfin, les donnees formatees sont transmises du serveur de distribution de contenu au dispositif active par navigateur a travers le reseau de communication.

Legal Status (Type, Date, Text)

Publication 20020321 A2 Without international search report and to be republished upon receipt of that report.

Examination 20021010 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20030717 Late publication of international search report

Republication 20030717 A3 With international search report.

Fulltext Availability:

Detailed Description

Detailed Description

... serve : A computer server connected to browser-enabled devices across a network, programmed to retrieve **data requested** by the devices and **format** the retrieved data for display on the **device** consistent with the **capabilities** of the **device** browser.

Full Cqcapability Browser-enabled Devices ("FCB Devices"): Devices containing browser software capable of completely displaying documents

formatted in the HyperText Markup Language ("HTML").

Limited Capability Browser-enabled Devices ("LCB Devices"): Devices containing...

18/5,K/15 (Item 15 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00881926 **Image available**

SYSTEM AND METHOD FOR BUILDING APPLICATIONS THAT ADAPT FOR MULTIPLE DEVICE
AND PROTOCOL STANDARDS

SYSTEME ET PROCEDE POUR CONSTRUIRE DES APPLICATIONS QUI S'ADAPTENT A DES
NORMES MULTIPLES DE DISPOSITIFS ET DE PROTOCOLES

Patent Applicant/Assignee:

ALIGO, 444 De Haro Street, Suite 123, San Francisco, CA 94107, US, US
(Residence), US (Nationality)

Inventor(s):

CAPONE Jeffrey, 4111 N. Drinkwater Blvd., #309, Scottsdale, AZ 85251, US,

HOFFMAN Steven P, 15132 E. Sunburst, Fountain Hills, AZ 85268, US,
IMMANENI Pramrod S, 1115 E. Lemon Street, #125, Tempe, AZ 85281, US,
MUDIAM Sudhakiran V, 950 S. Terrace Road, #A-109, Tempe, AZ 85281, US,
TURGUT Alper, 39 Fair Oaks Street, #206, San Francisco, CA 94110, US,

Legal Representative:

RITTMASER Ted R (agent), Foley & Lardner, 35th Floor, 2029 Century Park
East, Los Angeles, CA 90067-3021, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200215002 A2-A3 20020221 (WO 0215002)

Application: WO 2001US23410 20010726 (PCT/WO US0123410)

Priority Application: US 2000225718 20000816; US 2001834423 20010413

Designated States:

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prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-009/44

International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10753

English Abstract

A process and system for adapting an application created without regard
to protocol or device to a particular protocol and device. An application
developer may create content in an object oriented fashion using
application programming interfaces (APIs) provided by the system. The
resultant content may be protocol independent and device independent.
When processed by the system, the system may first take the protocol
independent and device independent content and render it to become
protocol dependent and device independent using engines provided by the

system. The system may then take the protocol dependent and device independent content and adapt it based on a resource descriptive framework (RDF) for a device to become protocol dependent and device dependent.

French Abstract

L'invention concerne un procede et un systeme pour adapter une application creee, abstraction faite du protocole ou du dispositif, a un protocole et a un dispositif particuliers. Un developpeur d'applications peut creer un contenu de maniere orientee objet, a l'aide d'interfaces de programmation d'application (API) fournies par le systeme. Le contenu qui en resulte peut etre independant du protocole et du dispositif. Lorsque l'application est traitee par le systeme, ledit systeme peut d'abord prendre le contenu independant du protocole et du systeme et faire qu'il soit dependant du protocole et independant du dispositif a l'aide de moteurs fournis par le systeme. Le systeme peut alors prendre le contenu dependant du protocole et independant du dispositif et l'adapter sur la base d'un cadre descriptif des ressources (RDF) pour un dispositif, afin d'etre dependant du protocole et du dispositif.

Legal Status (Type, Date, Text)

Publication 20020221 A2 Without international search report and to be republished upon receipt of that report.
Examination 20020418 Request for preliminary examination prior to end of 19th month from priority date
Examination 20020613 Request for preliminary examination prior to end of 19th month from priority date
Search Rpt 20030821 Late publication of international search report
Republication 20030821 A3 With international search report.

Fulltext Availability: Detailed Description

Detailed Description

... register with handlers 152, 154, 156, each of which may control one property of the **device** and knows the **capabilities** of that property as described in the RDF. The **object** may pass a **request** for **formatting** through each handler until a handler responsible for the particular control of that property receives...

18/5,K/16 (Item 16 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00822238 **Image available**

METHOD AND APPARATUS FOR CONTENT DISTRIBUTION VIA NON-HOMOGENEOUS ACCESS NETWORKS

PROCEDE ET DISPOSITIF DE DISTRIBUTION DE CONTENU PAR L'INTERMEDIAIRE DE RESEAUX D'ACCES NON HOMOGENES

Patent Applicant/Assignee:

DIVA SYSTEMS CORPORATION, 800 Saginaw Drive, Redwood City, CA 94063, US,
US (Residence), US (Nationality)

Inventor(s):

SON Yong Ho, 535 Arastradero #310, Palo Alto, CA 94110, US,
GOODE Christopher W B, 722 Creek Drive, Menlo Park, CA 94025, US,

Legal Representative:

MOSER Raymond R Jr (et al) (agent), 595 Shrewsbury Avenue, Suite 100,
Shrewsbury, NJ 07702, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200155860 A1 20010802 (WO 0155860)

Application: WO 2001US2602 20010129 (PCT/WO US0102602)
Priority Application: US 2000178795 20000128; US 2000178810 20000128; US
2000178857 20000128; US 2000178809 20000128; US 2001772287 20010129; US
2001772288 20010129

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-013/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 9014

English Abstract

A method and apparatus for streaming content to an access network in an interactive information distribution system (100). The method initially encapsulates the content in accordance to an Internet Protocol (IP). In one embodiment, the content is configured as a plurality of a MPEG-2 packets contained in a payload of a Realtime Transport Protocol (RTP) packet (352 - 356) that is contained in an IP packet (300). The content is then transcoded into a format supported by the access network, and streamed over a distribution network to a remote server (201) or to a subscriber terminal that is coupled to the access network (104). The apparatus is embodied as at least one stream caching server (102) for streaming said content as an Internet Protocol (IP) packet to at least one access network via a stream distribution network in response to a request for content, where the content is encapsulated within the IP packet. A packet processor (144) is coupled to the at least one stream server for processing the encapsulated content within the IP packets into at least one packet in a format native to the at least one access network.

French Abstract

L'invention concerne un procede et un dispositif de transmission, en continu, d'un contenu en direction d'un reseau d'accès, dans un systeme interactif de distribution d'informations (100), ce procede consistant d'abord a encapsuler le contenu selon un protocole Internet (IP). Dans un mode de realisation, le contenu est configure sous forme de plusieurs paquets MPEG-2 contenus dans une charge utile d'un paquet de protocole de transport en temps reel (352-356), inclus dans un paquet IP (300). Le contenu est alors transcode en un format supporte par le reseau d'accès et transmis en continu sur un reseau de distribution, a destination d'un serveur a distance (201), ou a un terminal d'abonné couple au reseau d'accès (104). Le dispositif de l'invention est constitue comme au moins un serveur de mise en antememoire de flux (102), aux fins de transmission de ce flux, en continu, a au moins un reseau d'accès, en tant que paquet de Protocole Internet (IP), par l'intermediaire d'un reseau de distribution de flux, en reponse a une demande de contenu, ce contenu etant encapsule dans le paquet IP. Un processeur de paquets (144) est couple au moins au serveur de flux, aux fins de traitement du contenu encapsule dans les paquets IP et de mise sous forme d'un paquet dont le

format est spécifique d'au moins le reseau d'accès.

Legal Status (Type, Date, Text)

Publication 20010802 A1 With international search report.

Examination 20011227 Request for preliminary examination prior to end of 19th month from priority date

Withdrawal 20020207 Withdrawal of priority claims after international publication: US 09/772,287 20010129

Withdrawal 20020207 Withdrawal of priority claims after international publication: US 09/772,288 20010129

Fulltext Availability:

Detailed Description

Detailed Description

... server by supporting the streaming of content in real time.

It) In

After a user **request** is received from a user or subscriber of services located at a particular access network, the packet **processor** 144 is **capable** of post processing the stored content into a **format** that conforms to the particular access network from which the **request** for **content** originated. Post processing by the MPEG processor 144 includes sizing (e.0 C@ 1-7...

18/5,K/17 (Item 17 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00820836 **Image available**

EXCHANGE OF INFORMATION IN A COMMUNICATION SYSTEM

ECHANGE DE L'INFORMATION DANS UN SYSTEME DE COMMUNICATION

Patent Applicant/Assignee:

THE PHONE PAGES OF SWEDEN AB, Vastra Hamngatan 21, S-411 17 Goteborg, SE, SE (Residence), SE (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

MINBORG Per-Ake, Valebergsvagen 7, S-444 60 Stora Hoga, SE, SE (Residence), SE (Nationality), (Designated only for: US)

MINBORG Lars Mats Jonas, Bagaregardsgatan 11C, S-416 70 Goteborg, SE, SE (Residence), SE (Nationality), (Designated only for: US)

POHJANVUORI Timo, Sveagatan 2C, S-413 14 Goteborg, SE, SE (Residence), SE (Nationality), (Designated only for: US)

BABTIST-LARSSON Nils Thomas, Almedahlsvagen 6, S-178 38 Ekero, SE, SE (Residence), SE (Nationality), (Designated only for: US)

Legal Representative:

BERGENTALL Annika (et al) (agent), Cegumark AB, Box 53047, S-400 14 Goteborg, SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200154441 A1 20010726 (WO 0154441)

Application: WO 2001SE80 20010118 (PCT/WO SE0100080)

Priority Application: US 2000176806 20000119; US 2000644307 20000823; US 2000686990 20001017

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04Q-007/32

International Patent Class: H04M-001/57

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12181

English Abstract

A technique for supplying a data object to a user of a communication system includes: (a) creating a data object intended for rendering at a first communication device (e.g., a subscriber's communication device), the rendering to take place upon the occurrence of a triggering communication event, the data object providing information pertaining to a user of a second communication device (e.g., a holder's communication device); (b) storing the data object in a data server; (c) transferring, in a first transferring step, the data object from the data server to the second communication device (e.g., the holder's communication device; (d) transferring, in a second transferring step, the data object from the second communication device to the first communication device (e.g., the subscriber's communication device); (e) determining whether the triggering communication event has occurred, and (f) rendering the data object at the first communication device (e.g., the subscriber's communication device) upon the occurrence of the communication event. In another embodiment, the data server may transfer the data object directly to the first communication device. A physical implementation of the above technique is also described.

French Abstract

L'invention concerne une technique destinee a fournir un objet de donnees a un utilisateur d'un systeme de communication, ladite technique consistant a a) creer un objet de donnees servant a traduire au niveau d'un premier dispositif de communication (par exemple, un dispositif de communication d'abonne), le rendu qui doit avoir lieu suite a un evenement de communication de declenchement, l'objet de donnees produisant l'information appartenant a un utilisateur d'un second dispositif de communication (par exemple, un dispositif de communication d'un detenteur), b) stocker l'objet de donnees dans un serveur de donnees, c) transferer lors d'une premiere etape de transfert, l'objet de donnees du serveur de donnees au second dispositif de communication (par exemple, le dispositif de communication du detenteur), d) transferer lors d'une seconde etape de transfert, l'objet de donnees du second dispositif de communication au premier dispositif de communication (par exemple, le dispositif de communication de l'abonne), e) determiner si l'evenement de communication de declenchement a eu lieu, et f) traduire l'objet de donnees au niveau du premier dispositif de communication (par exemple, le dispositif de communication de l'abonne) suite a un evenement de communication. Dans un autre mode de realisation, le serveur de donnees peut transferer l'objet de donnees directement au premier dispositif de communication. Cette invention a egalement trait a l'installation physique de la technique susmentionnee.

Legal Status (Type, Date, Text)

Publication 20010726 A1 With international search report.

Publication 20010726 A1 Before the expiration of the time limit for
amending the claims and to be republished in the

event of the receipt of amendments.
Examination 20011025 Request for preliminary examination prior to end of
19th month from priority date

Fulltext Availability:
Detailed Description

Detailed Description

... such as a phonepage. The data server retrieves the data object in step 1404. The **request** received in step 1402 may also include an indication of a user **device** display **capability**. In this case, the data server may adapt the retrieved **data object** to the **requested format** in step 1406. 3 0 Alternatively, the database may store the data objects in different **formats**. In this case, the data
SUBSTITUTE SHEET (RULE 26)
server complies with the **request** by retrieving the **data object** having the correct format. The data server sends the data object in step 1408...
? t18/5,k/20-23

18/5,K/20 (Item 20 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00557859 **Image available**

CONVERSATIONAL BROWSER AND CONVERSATIONAL SYSTEMS NAVIGATEUR INTERACTIF ET SYSTEMES INTERACTIFS

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION,
GOPALAKRISHNAN Ponani,
LUCAS Bruce D,
MAES Stephane H,
NAHAMOO David,
SEDIVY Jan,

Inventor(s):

GOPALAKRISHNAN Ponani,
LUCAS Bruce D,
MAES Stephane H,
NAHAMOO David,
SEDIVY Jan,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200021232 A2 20000413 (WO 0021232)
Application: WO 99US23008 19991001 (PCT/WO US9923008)
Priority Application: US 98102957 19981002; US 99117595 19990127

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CA CN IL IN JP KR US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT
SE

Main International Patent Class: G06F-015/16

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 22867

English Abstract

A conversational browsing system (10) comprising a conversational browser (11) having a command and control interface (12) for converting speech commands or multi-modal input from I/O resources (27) into navigation request. The system (10) comprises conversational engines (23) for decoding input commands for interpretation by the command and control

interface and decoding meta-information provided by the CML processor for generating synthesized audio output. The system includes a communication stack (19) for transmitting the navigation request to a content server and receiving a CML file from the content server based on the navigation request. A conversational transcoder (13) transforms presentation material from one modality to a conversational modality. The transcoder (13) includes a functional transcoder (13a) to transform a page of GUI to a page of CUI (conversational user interface) and a logical transcoder (13b) to transform business logic of an application, transaction or site into an acceptable dialog.

French Abstract

L'invention porte sur un systeme de navigation (10) interactif comprenant un navigateur (11) interactif possedant une interface (12) de commande et de controle destinee a convertir des commandes vocales ou entrees multi-modales a partir de ressources (27) E/S en une demande de navigation ; un processeur (14) pour analyser et interpreter un fichier CML (langage de balisage interactif), ce fichier comprenant des meta-informations representant une interface utilisateur interactive destinee a etre presentee a un utilisateur. Le systeme (10) comprend des moteurs (23) interactifs destines a decoder des commandes d'entree qui seront interpretees par l'interface commande et controle, et a decoder des meta-informations fournies par le processeur CML de facon a generer une sortie audio synthetisee. L'explorateur (11) accede au moteur (23) par des appels systeme dans une plate-forme (15) systeme. Le systeme comprend une pile (19) de communications destinee a transmettre la demande de navigation a un serveur de contenus et a recevoir un fichier CML du serveur de contenus sur la base de la demande de navigation. Un transcodeur (13) interactif transforme le materiau de presentation d'une modalite en une modalite interactive. Le transcodeur (13) comprend un transcodeur (13a) fonctionnel destine a transformer une page de GUI en une page de CUI (interface utilisateur interactive) et un transcodeur (13b) logique destine a transformer une logique de gestion d'une application, d'une transaction ou d'un site en un dialogue acceptable. Le transcodage interactif peut convertir des fichiers HTML en fichier CML qui sont interpretes par l'explorateur (11) interactif.

Fulltext Availability:

Claims

Claim

... is accessed such that the entity can customize the CML file based on the registered **capabilities** .

21 The program storage **device** of claim 19, further comprising instructions for performing the step of generating a navigation **request** for accessing a **file** comprising a legacy information **format** ; and
converting the legacy information **format** to a CML file.
22 The program storage device of claim 19, further

18/5,K/21 (Item 21 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00510382 **Image available**
PROGRESSIVELY-SECTIONED GRAPHICS (PSG) FILE AND SOFTWARE ENABLING SELECTIVE
DOWNLOAD, UPLOAD AND DISPLAY
FICHER GRAPHIQUE A SECTIONS PROGRESSIVES ET LOGICIEL PERMETTANT UN

TELECHARGEMENT ET UN AFFICHAGE SELECTIFS

Patent Applicant/Assignee:

LEXTRON SYSTEMS INC,

Inventor(s):

KIKINIS Dan,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9941734 A1 19990819

Application: WO 99US3292 19990216 (PCT/WO US9903292)

Priority Application: US 9824882 19980217

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CN JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G09G-005/00

International Patent Class: G09G-005/04; G06F-015/00; G06F-015/20

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8430

English Abstract

An image file system provides for storing image data in a file (23) in progressively enhanced sections, a first section (29) having reduced pixels resolution and minimal color specification, each subsequent section (31, 33, 35, 37,...) adding additional data for one or both of finer pixel resolution and more complete color, until a last image section provides final data addition for maximum resolution and color. A pointer in the header section (25) of the file points to section location. A sound bite in the sound section (27), which is optional, provides sound accompanying the image file. In this system, video stations of different complexity and capability can specify just those portions of a progressively sectioned file needed for the display, thereby avoiding the bandwidth requirement for downloading the entire file. In a preferred system, a YUV-style protocol is used, so a first section (29) can specify only colorless gray scale data for an image. In use for video frames the file system allows smooth video even in cases of severe bandwidth degradation, as the minimal first section will provide a decent gray-scale image.

French Abstract

La presente invention concerne un systeme de fichier image permettant de stocker des donnees image a l'interieur d'un fichier (23) dans des sections a amelioration progressive, une premiere section (29) presentant une resolution de pixel reduite et une determination minimale des couleurs, chaque section successive (31,33,35,37,...) venant ajouter des donnees supplementaires qui permettront une meilleure resolution de pixel et/ou une determination plus complete des couleurs, jusqu'a ce qu'une section d'image finale ajoute les donnees d'image finales qui permettront d'atteindre une resolution et une determination des couleurs maximales. Un pointeur dans l'en-tete (25) du fichier indique l'emplacement de la section. Une trame son dans la section son (27), qui est facultative, fournit le son qui accompagne le fichier image. Avec le systeme de la presente invention, les unites video de complexites et de potentiels differents peuvent ne specifier que les parties d'un fichier a sections progressives dont elles ont besoin pour l'affichage, economisant de la sorte les largeurs de bande qui seraient necessaires pour telecharger le fichier entier. Dans un systeme prefere, un protocole de type YUV est utilise de facon qu'une premiere section (29) peut ne specifier pour une image que les donnees de l'echelle de gris, sans les couleurs. Lorsqu'il est utilise pour les images video, le systeme de fichier la present

invention permet un affichage video lisse meme dans les cas d'importante diminution de la largeur de bande, etant donne que la premiere section minimale fournit une image a echelle de gris correcte.

Fulltext Availability:
Detailed Description

Detailed Description

... Software may be provided, for example, to operate with an existing database to dynamically convert **requested files** not in **PSG format** to **PSG format** prior to transmission, to interface with **PSG- capable** players and **computer** stations.

- 20 It will also be apparent to those with skill in the

18/5,K/22 (Item 22 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00410492 **Image available**

METHOD AND ARRANGEMENT FOR DISTRIBUTING SERVICE PROGRAMS IN A NETWORK ENVIRONMENT
PROCEDES ET DISPOSITIFS DE REPARTITION DES SERVICES ET/OU PROGRAMMES DANS UN ENVIRONNEMENT DE RESEAU

Patent Applicant/Assignee:

MORE MAGIC SOFTWARE MMS OY,
NIEMINEN Mika P,
KALPIO Karri,
RINKINEN Jorma,

Inventor(s):

NIEMINEN Mika P,
KALPIO Karri,
RINKINEN Jorma,

Patent and Priority Information (Country, Number,. Date):

Patent: WO 9800951 A2 19980108
Application: WO 97FI426 19970701 (PCT/WO FI9700426)
Priority Application: FI 962724 19960702; FI 972718 19970624

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT
RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU GH KE LS MW SD SZ
UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU
MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class: G06F-013/38

International Patent Class: H04L-29:02; H04L-29:06; G06F-13:00

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6988

English Abstract

The invention relates to methods and arrangements for distributing a user interface for communications and/or service or services available in a communications network, wherein said user interface is independent from used terminal means and/or used application or applications. Said method comprises the following steps: requesting an access to at least one desired service by said terminal means, identifying the type of said

terminal means, identifying and selecting the desired service(s), establishing a customized connection between the requested service(s) and said terminal means on basis of said identifying, and delivering at least one service program dependent from the type of the terminal means and the requested service to said terminal means.

French Abstract

La presente invention concerne un procede et un dispositif de realisation d'interface utilisateur distribuee avec des communications et/ou un ou plusieurs services disponibles dans un reseau de telecommunications, l'interface consideree s'adaptant aux terminaux utilises et/ou a une ou plusieurs applications. Le procede se decompose en plusieurs operations: demande par le terminal d'un acces a l'un au moins des services desires, identification du type du terminal considere, identification et selection d'au moins un service desire, etablisement d'une connexion adaptee entre l'un au moins des services demandes et le terminal considere en tenant compte de l'identification, et remise au terminal d'au moins un programme de service en fonction du type du terminal et du service demande.

Fulltext Availability:

Claims

Claim

... identifier is validated and adapted with the identity of the requested service access point. The **format** of the **request** and the **data** embedded into it enables the ISB to identify the type of the **terminal** and the **capabilities** and performance thereof. It is possible that in some instances this takes a longer and...

18/5,K/23 (Item 23 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00208437

COMMUNICATION SYSTEM HAVING ADAPTABLE MESSAGE INFORMATION FORMATS SYSTEME DE COMMUNICATION A STRUCTURES ADAPTABLES D'INFORMATIONS SOUS FORME DE MESSAGE

Patent Applicant/Assignee:

MOTOROLA INC,

Inventor(s):

WEINBERG Morton,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9205640 A1 19920402

Application: WO 91US5090 19910719 (PCT/WO US9105090)

Priority Application: US 90845 19900920

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT BE CA CH DE DK DK ES FR GB GR IT JP KR LU NL NO SE

Main International Patent Class: H04B-007/00

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 7365

English Abstract

A communication system comprises means for requesting and receiving a first message information format (202), means for requesting and

receiving a second message information format (202), and control means (210) for detecting a measure of communication activity and for comparing the measure of communication activity to a threshold that is adaptable by the control means (210) as a function of the communication activity. The communication system accepts the first message information format when the measure of communication activity is below the threshold (604, 610, 606, and 608), and accepts the second message information format when the measure of communication activity is above the threshold (604, 610, 612, 614, and 616).

French Abstract

Système de communication comprenant des dispositifs destinés à demander et à recevoir une première structure d'informations sous forme de message (202), des dispositifs destinés à demander et à recevoir une seconde structure d'informations sous forme de message (202) et un dispositif de commande (210) destiné à détecter une mesure d'activité de communication et à comparer la mesure de l'activité de communication à un seuil qui est adaptable par le dispositif de commande (210) en fonction de l'activité de communication. Ledit système de communication accepte la première structure d'informations sous forme de message lorsque la mesure de l'activité de communication est inférieure au seuil (604, 610, 606 et 608) et accepte la seconde structure d'informations sous forme de message lorsque la mesure de l'activité de communication est supérieure au seuil (604, 610, 612, 614 et 616).

Fulltext Availability:

Detailed Description

Detailed Description

... pager address and a message information format for the particular select call receiver). When a **page request** is received from a caller, the paging terminal controller 210 verifies the **requested pager** address and coupled message information **format**. By comparing the **page request** information to a local database of valid pager addresses and message information **formats**, the paging **terminal** controller 210 is **capable** of instructing the automatic telephone input 202 for the required prompting to the caller. Additionally, the accepted **page request** information may be transferred from the automatic telephone input to the paging terminal controller 210...utilization of memory (224 and 232) in the paging terminal 200.

Therefore, an inventive paging **terminal** 200 may be **able** to better manage the memory resources by receiving and accepting those incoming **page requests** having message **formats** that optimally fill the available memory (224 and 232). In this fashion, more paging traffic...

...6 dutv cycles over time as a measure of communication activity.

Consequently, an inventive paging **terminal** 200 may be **able** to better manage the paging channel utilization by receiving and accepting those incoming **page requests** having message **formats** that optimally fill the available time (402 and 412). In this fashion, more paging traffic...

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File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)

(c) 2005 JPO & JAPIO

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200531

(c) 2005 Thomson Derwent

File 344:Chinese Patents Abs Aug 1985-2005/May

(c) 2005 European Patent Office

File 371:French Patents 1961-2002/BOPI 200209

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Set	Items	Description
S1	1300173	CAPABIL? OR CAPABLE? OR ABLE OR ABILIT?
S2	147720	S1(5N)(DEVICE? ? OR TERMINAL? ? OR COMPUTER? ? OR MICROCOM- PUT? OR MICROPROCESS? OR PC OR PCS OR WORKSTATION? OR WORK()S- TATION? ?)
S3	7213	S1(5N)(PROCESS?R? ? OR CPU OR CPUS OR PCU OR PCUS)
S4	237999	QUERY? OR QUERIE? ? OR INTERROGAT? OR INQUIR? OR ENQUIR? OR REQUISITION? OR REQUEST? OR ELICIT?
S5	147904	FORMAT OR FORMATS OR FORMATED OR FORMATING OR FORMATT? OR - REFORMAT? OR LAYOUT? OR LAY()OUT? ?
S6	196744	REQUEST?
S7	7697	S6(3N)(DOCUMENT? ? OR WEBPAGE? OR PAGE? ? OR PUBLICATION? - OR FILE OR FILES OR REPORT? ? OR ARTICLE? ? OR TEXTFILE?)
S8	6757	S6(3N)(CONTENT? ? OR ECONTENT? ? OR OBJECT? ? OR TEXTDATA)
S9	25364	S6(3N)DATA
S10	1242	S2:S3(20N)S4
S11	52	S10 AND S5
S12	47	S11 NOT VIDEO? ?
S13	46	S12 NOT PAGER? ?
S14	46	IDPAT (sorted in duplicate/non-duplicate order)
S15	46	IDPAT (primary/non-duplicate records only)

? t15/9/20-27,30-31,33-34,36

15/9/20 (Item 20 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

013097729 **Image available**
WPI Acc No: 2000-269601/200023
XRPX Acc No: N00-201775

Operating method of network information delivery system

Patent Assignee: AT & T CORP (AMTT)
Inventor: AGRAHARAM S; BRUNO R F; CASH G L; MARKOWITZ R E; NURENBERG S H;
O'NEIL J T; RAMAMURTHY R S; ROSEN K H
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6035339	A	20000307	US 97816234	A	19970313	200023 B

Priority Applications (No Type Date): US 97816234 A 19970313

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6035339	A	14	G06F-013/00	

Abstract (Basic): US 6035339 A

NOVELTY - End-user terminal multimedia viewer requirements are determined based on predetermined data corresponding to end-user terminal and type of a multimedia viewer used on the end-user terminal. Based on the end-user terminal multimedia viewer requirements, information is packaged. The packaged information is sent to the end-user terminal via a network.

DETAILED DESCRIPTION - The packaging of information includes the steps of retrieving the information to be packaged from an information source, setting parameters directed to the end-user terminal for regulating information presentation based on the end-user terminal multimedia viewer requirements, selecting one of the predetermined multimedia viewer **formats** of the information, and **formatting** into the selected multimedia viewer **format** the information and parameters into the package information based on the end-user terminal multimedia viewer requirements. An INDEPENDENT CLAIM is also included for a network information delivery system.

USE - For delivering information e.g. multimedia information to end-user from network e.g. Internet.

ADVANTAGE - Program executing in end-user terminal returns information regarding end-user **terminal capabilities** to network information delivery **device** so that **requested** information may be **formatted** and delivered in an optimal manner. Information to be delivered to end-users may be stored in generic **format** so that packaging the information for a specific user may be efficiently and timely performed.

DESCRIPTION OF DRAWING(S) - The figure shows a process flowchart for delivering information to end-user.

pp; 14 DwgNo 6/10

Title Terms: OPERATE; METHOD; NETWORK; INFORMATION; DELIVER; SYSTEM
Derwent Class: T01
International Patent Class (Main): G06F-013/00
File Segment: EPI
Manual Codes (EPI/S-X): T01-H07C3D; T01-H07C5E; T01-J30

15/9/21 (Item 21 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

012995638 **Image available**
WPI Acc No: 2000-167490/200015
XRPX Acc No: N00-125984

Image data transmitter for vehicle mounted display device - determines display device capability and transmits image data in certain format that suits display device capability

Patent Assignee: EQUOS RES KK (EQUO-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000023147	A	20000121	JP 98184254	A	1998063	200015 B

Priority Applications (No Type Date): JP 98184254 A 19980630

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000023147	A	13	H04N-007/18	

Abstract (Basic): JP 2000023147 A

NOVELTY - The image signal converted to image data is stored in memory unit in a predetermined **format**. An image data output unit determines the **capability** of display **device** (100) **requesting** for image data, from capability information prestored. The output unit determines if current storage **format** of image data suits display **device capability**, and transmits image data to said display device. DETAILED DESCRIPTION - The image data transmitter (150) receives image signal from image pick-up apparatus (160).

USE - In transmitting image data to vehicle mounted display device.

ADVANTAGE - By transmitting image data in certain **format** that suits display device capability an image display is obtained quickly. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of image data processing system. (100) Display device; (150) Image data transmitter; (160) Image pick-up apparatus.

Dwg.1/7

Title Terms: IMAGE; DATA; TRANSMIT; VEHICLE; MOUNT; DISPLAY; DEVICE;
DETERMINE; DISPLAY; DEVICE; CAPABLE; TRANSMIT; IMAGE; DATA; **FORMAT** ;
SUIT; DISPLAY; DEVICE; CAPABLE

Derwent Class: W02

International Patent Class (Main): H04N-007/18

File Segment: EPI

Manual Codes (EPI/S-X): W02-F01

15/9/22 (Item 22 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

012328862 **Image available**
WPI Acc No: 1999-134969/199912
XRPX Acc No: N99-098529

Information access system for terminals with different capability ranges - has terminal that advises server of capability when requesting information and server adjusts form of images delivered to suit capability of terminal

Patent Assignee: NEC CORP (NIDE)
Inventor: HOSOMI I
Number of Countries: 028 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 898404	A2	19990224	EP 98115522	A	19980818	199912 B
JP 11066101	A	19990309	JP 97236565	A	19970818	199920
CA 2245112	A	19990218	CA 2245112	A	19980817	199931
JP 3000972	B2	20000117	JP 97236565	A	19970818	200008
US 6151596	A	20001121	US 98135562	A	19980818	200101
CA 2245112	C	20021015	CA 2245112	A	19980817	200282

Priority Applications (No Type Date): JP 97236565 A 19970818

Cited Patents: No-SR.Pub

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 898404	A2	E 32	H04L-029/06	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT				
LI LT LU LV MC MK NL PT RO SE SI				
JP 11066101	A	15	G06F-017/30	
CA 2245112	A		G06F-003/00	
JP 3000972	B2	15	G06F-017/30	Previous Publ. patent JP 11066101
US 6151596	A		G06F-017/30	
CA 2245112	C E		G06F-003/00	

Abstract (Basic): EP 898404 A

The information system allows a user at a terminal (1) to access information from a server (2). A user makes a **request** (11, 13) and this is sent, along with data on the **terminal's capability** (15), to the server. The server retrieves information elements from a number of sources (21) on the basis of a default output state.

Rules are then applied according to a priority (25) to adjust the **format** to suit the terminal. The adjusted data is sent to the terminal.

USE - Information supply to terminals of differing capabilities.

ADVANTAGE - By using prioritised rules to alter information **formats** an intelligent adjustment to terminal's capabilities is achieved.

DESCRIPTION OF DRAWING - Information system. List of parts: (1) User terminal; (2) Information server; (21) Information sources; (22) **Format** adjusting.

Dwg.1/20

Title Terms: INFORMATION; ACCESS; SYSTEM; TERMINAL; CAPABLE; RANGE; TERMINAL; ADVICE; SERVE; CAPABLE; REQUEST; INFORMATION; SERVE; ADJUST; FORM; IMAGE; DELIVER; SUIT; CAPABLE; TERMINAL

Derwent Class: W01

International Patent Class (Main): G06F-003/00; G06F-017/30; H04L-029/06

International Patent Class (Additional): G06F-003/14; G06F-012/00;

G06F-013/00; G06F-019/00; G06T-001/00

File Segment: EPI

Manual Codes (EPI/S-X): W01-A06B5; W01-A07G

15/9/23 (Item 23 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009627517 **Image available**

WPI Acc No: 1993-321066/199340

XRPX Acc No: N93-247299

Providing access between several information seekers via ECD - links ECD to gateway recognising ECD type and information seeker protocol, converts

received signal to required processing format , selects database to provide information for retrieval

Patent Assignee: CSIR (COUL)

Inventor: EVANS E E; FOUCHE B; GOLDSTEIN E D; MICHIE A D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
ZA 9208272	A	19930728	ZA 928272	A	19921026	199340 B

Priority Applications (No Type Date): ZA 918784 A 19911105

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
ZA 9208272	A	E	16 G06C-000/00	

Abstract (Basic): ZA 9208272 A

The method comprises linking the ECDs (12.1-12.3) to a gateway capable of recognising the type of ECD and the protocol being used by each information seeker. The received signals from the ECD are converting into a **format** capable of being processed by the gateway.

An artificial intelligence system processes information **requests** from the ECDs to select one **computer** database (14.1-14.3) **capable** of providing the information sought by the information seeker. The information is retrieved from the selected database, and a user profile is created of each information seeker previously connected to the system to facilitate subsequent requests for information.

USE/ADVANTAGE - E.g. for use in artificial intelligence system. Facilitates distribution of information and services to from information providers, using previous access paths. (Provisional Basic advised in week 9335).

Dwg.1/1

Title Terms: ACCESS; INFORMATION; SEEKER; LINK; GATEWAY; RECOGNISE; TYPE; INFORMATION; SEEKER; PROTOCOL; CONVERT; RECEIVE; SIGNAL; REQUIRE; PROCESS ; **FORMAT** ; SELECT; DATABASE; INFORMATION; RETRIEVAL

Index Terms/Additional Words: ELECTRONIC; COMMUNICATION; DEVICE; FACSIMILE; COMPUTER; TELEPHONE

Derwent Class: T01; W01

International Patent Class (Main): G06C-000/00

International Patent Class (Additional): G06F-000/00; H04Q-000/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-H07B; T01-J05B4; T01-J16; W01-A06E; W01-A06F

15/9/24 (Item 24 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009039394 **Image available**

WPI Acc No: 1992-166756/199220

XRFX Acc No: N92-124707

Distributed data processing system - splits data into number of formats and associated fields, and stores these among number of terminals via data processor

Patent Assignee: HITACHI COMPUTER CONSULT (HITA-N); HITACHI LTD (HITA)

Inventor: NAKAZATO R; OHGOMORI S; TSUKINO H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5109487	A	19920428	US 88260745	A	19881021	199220 B

Priority Applications (No Type Date): JP 87263826 A 19871021

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 5109487 A 21

Abstract (Basic): US 5109487 A

The data distribution system has a data processor whose memory stores a number of processor data display **formats** and their associated data fields. The processor selects a data **format** and outputs its corresponding field in response to a data **request**. The distribution system also includes a number of **terminals** each with a memory **capable** of storing display **formats**.

One terminal is used to load the **formats** into the data processor and/or into one of the remaining secondary terminals. A controller governs the data transfer. The second terminals have selectors to issue a request for a specific **format** to the data processor. The terminal receives the data field contents associated with the **format** requested, and then arranges and displays the contents according to one of the loaded display **formats** from the second terminal memory. A manual input of data in response to the terminal display is possible. The modified data is then sent to the data processor for storage.

USE/ADVANTAGE - Electronic mail systems. Data display **formats** stored beforehand so need not be transferred for each data transmission. Increased transmission efficiency. Easier user operability.

Dwg.1/9

Title Terms: DISTRIBUTE; DATA; PROCESS; SYSTEM; SPLIT; DATA; NUMBER; **FORMAT** ; ASSOCIATE; FIELD; STORAGE; NUMBER; TERMINAL; DATA; PROCESSOR

Derwent Class: T01

International Patent Class (Additional): G06F-003/15

File Segment: EPI

Manual Codes (EPI/S-X): T01-C04A; T01-F05; T01-H07C1; T01-M02A

15/9/25 (Item 25 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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008835999 **Image available**

WPI Acc No: 1991-340016/199146

XRPX Acc No: N91-260466

Display for graphical data from remote computer - uses supervisory program to indicate display capabilities and to receive and display graphical data

Patent Assignee: TEKNEKRON COMMUNICATIONS SYST (TEKN-N); TEKNEKRON COMMUNIC (TEKN-N)

Inventor: KAVALER R

Number of Countries: 018 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9116684	A	19911031				199146 B
AU 9177953	A	19911111				199207
US 5210825	A	19930511	US 90514590	A	19900426	199320

Priority Applications (No Type Date): US 90514590 A 19900426

Cited Patents: US 3624632; US 3967268; US 4338599; US 4394650; US 4404522; US 4591845; US 4622546; US 4686521; US 4757309; US 4814756; US 4862156; US 4881180; US 4894789; US 4928253; US 4941108

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
WO 9116684 A

Designated States (National): AU CA JP KR
Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU NL SE
US 5210825 A 7 G06F-015/62

Abstract (Basic): WO 9116684 A

The local computer display has an alphanumeric communication program which transmits and receives data to the remote computer. The supervisory program periodically interrupts the alphanumeric communication program and compares data received from the remote computer with stored data. When a particular command **query** is generated from the remote computer a response is invoked by the local **computer** indicating its **capabilities** for graphical data display. Compressed and encoded graphical data is passed to the local computer where it is decoded and decompressed for display.

The supervisory program is stored in memory, as is alphanumeric data **format** received from the remote computer. The decoder converts received data into compressed graphical data.

ADVANTAGE - Allows local computer to respond to queries from remote computer. (86pp Dwg.No.3/5

Abstract (Equivalent): US 5210825 A

The communication system comprises a remote computer and a local computer, linked by communication link (12). The local computer operates a conventional alphanumeric communication program which receives alphanumeric data from the remote computer. The local computer also comprises a supervisory program which is Terminate and Stay Resident in memory and which interrupts the operation of the alphanumeric communication program. When a particular command **query** is generated from the remote computer, the supervisory program causes the local **computer** to respond thereto, indicating the **capabilities** of the local **computer** for graphical data display.

When graphical data, which has been compressed and encoded in alphanumeric **format**, is transmitted by the remote computer and is received by the local computer and stored in a first memory, the local computer decodes the alphanumeric **format** and decompresses to regenerate the original graphical data. The original graphical data is then stored in a second memory and the display unit is directed to receive the graphical data and to display on the display unit.

ADVANTAGE - 'Backwards compatible', i.e. compatibility with existing protocol, is maintained.

Dwg.2/5

Title Terms: DISPLAY; GRAPHICAL; DATA; REMOTE; COMPUTER; SUPERVISION;
PROGRAM; INDICATE; DISPLAY; CAPABLE; RECEIVE; DISPLAY; GRAPHICAL; DATA
Derwent Class: P85; T01; T04

International Patent Class (Main): G06F-015/62

International Patent Class (Additional): G09G-001/00

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): T01-J07; T01-J10; T04-H01

15/9/26 (Item 26 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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008442539 **Image available**

WPI Acc No: 1990-329539/199044

XPX Acc No: N90-252277

Data file processor for computer network print server - uses structured fields for delimiting data files where printer and host computer have differing data formats

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC); IBM CORP (IBMC)

Inventor: KIPPENHAN B W; MAHOLICK A W
Number of Countries: 004 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 395562	A	19901031	EP 90480053	A	19900327	199044 B
US 5010514	A	19910423	US 89344178	A	19890426	199120
EP 395562	A3	19920819	EP 90480053	A	19900327	199337
EP 395562	B1	19970903	EP 90480053	A	19900327	199740
DE 69031358	E	19971009	DE 631358	A	19900327	199746
			EP 90480053	A	19900327	

Priority Applications (No Type Date): US 89344178 A 19890426
Cited Patents: NoSR.Pub; EP 123806; EP 191177

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 395562	A			
				Designated States (Regional): DE FR GB
EP 395562	B1 E	10	G06F-003/12	
				Designated States (Regional): DE FR GB
DE 69031358	E		G06F-003/12	Based on patent EP 395562

Abstract (Basic): EP 395562 A

The print server determines the functions supported by target printers. A beginning of file structured field is inserted in the data stream by the sending computer and terminated with an end of file field when sending to suitable printers. The print server sends the file to the required printer when a valid delimited data file is received.

The print server performs error checking before sending the file to ensure that the correct delimiting fields have been received.

ADVANTAGE - Easy insertion of fields in data stream. Recognises suitable printers. (8pp Dwg.No.1/5)

Abstract (Equivalent): EP 395562 B

A method for delineating the beginning and the end of a data file sent to a print server (2) and for spooling and sending data files to a target printer device in a computer network (1) having a plurality of host processors (5, 6) collectively referred to as sender devices and a plurality of printer devices (9, 10); said method using structured fields to communicate between a sender device and said print server being characterised in that it comprises the steps of: sending an **inquiry** from said sender device to said print server to determine the functional **capabilities** of said target printer **device**; returning a response from said print server to said sender device including a response code indicating that the print server supports receiving beginning of file and end of file structured fields; appending a beginning of file structured data field to the first structured data field of a data stream to form a once modified data stream to be sent to said print server; starting transmission of said once modified data stream to said print server; appending an end of file structured data field to the last structured field of said once modified data stream to form a twice modified data stream and transmitting said twice modified data stream to said print server; examining and processing said twice modified data stream to extract the beginning of file and end of file structured data field, and sending the file contained in the data stream to said target printer device for printing.

Dwg.1/5

Abstract (Equivalent): US 5010514 A

The method comprises sending an **inquiry** from the sender device to the print server to determine the functional **capabilities** of the target printer **device**. A response is returned from the print server to the sender device indicating the functions supported by the target printer device. A beginning of file structured data field is appended

to the beginning of the data stream to form a modified data stream to be sent to the print server. The modified data stream is transmitted to the print server. An end of file structured data field is appended to the end of the modified data stream and the structured field is transmitted to the print server. The modified data stream is examined and processed to extract the beginning of file and end of file structured data fields. The file contained in the data stream is sent to the target printer device for printing. ADVANTAGE - Can send data stream for printing on printer which uses different type of data format .

(7pp

Title Terms: DATA; FILE; PROCESSOR; COMPUTER; NETWORK; PRINT; SERVE; STRUCTURE; FIELD; DELIMIT; DATA; FILE; PRINT; HOST; COMPUTER; DIFFER; DATA; **FORMAT**

Derwent Class: T01

International Patent Class (Main): G06F-003/12

International Patent Class (Additional): G06F-015/16

File Segment: EPI

Manual Codes (EPI/S-X): T01-C05; T01-H05

15/9/27 (Item 27 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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008361273 **Image available**

WPI Acc No: 1990-248274/199033

XRPX Acc No: N90-192807

Flexibly allocating bandwidth for point-to-point - has set of predefined rules including default allocation rule in event no allocation rule is specified by user

Patent Assignee: DATA GENERAL CORP (DATG)

Inventor: BERRY K H; MOSTAFA A D

Number of Countries: 009 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 382361	A	19900816	EP 90300617	A	19900122	199033 B
AU 9047883	A	19900816				199040
US 4965798	A	19901023	US 89308355	A	19890209	199045
JP 2290346	A	19901130	JP 906045	A	19900112	199103
US 5051984	A	19910924	US 90561817	A	19900730	199141
CA 1335834	C	19950606	CA 612404	A	19890921	199530
EP 382361	B1	19961016	EP 90300617	A	19900122	199646
DE 69028860	E	19961121	DE 628860	A	19900122	199701
			EP 90300617	A	19900122	

Priority Applications (No Type Date): US 89308355 A 19890209; US 90561817 A 19900730

Cited Patents: 1.Jnl.Ref; A3...9149; EP 223443; NoSR.Pub; WO 8606231; WO 8703762

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 382361 B1 E 24 H04J-003/16

Designated States (Regional): DE FR GB NL SE

DE 69028860 E H04J-003/16 Based on patent EP 382361

CA 1335834 C H04L-012/52

Abstract (Basic): EP 382361 A

The communications system comprises a bit map comprising m x n bit locations, each bit location corresponding to a different fragment on the first data path where each one of the m x n bit locations is used for storing a binary bit which takes a first value for indicating that

its corresponding fragment is available or a second value for indicating that its corresponding fragment is in use and unavailable.

An allocation circuit identifies available fragments on the first data path, in response to a particular data path user's **request** for bandwidth allocation, as specified by parameters received from the user interface manager. The allocation **device** is **capable** of performing the allocation in accordance with any one of a number of predefined rules, each of which define the bandwidth allocation **layout** request and any constraints.

ADVANTAGE -Rapid deallocation of bandwidth and status reporting.

(12pp Dwg.No.2/5

Abstract (Equivalent): EP 382361 B

A digital data communication system, having a switching granularity of 'x' bps, comprising a plurality of point-to-point, serial, bidirectional data paths each having a bandwidth, wherein the bandwidth of at least a first data path is divided into 'm' slots, the slots each being subdivided into 'n' fragments each one of said plurality of data paths being for transporting data within said system in response to a request for bandwidth from at least one of a set of data path users and wherein the system further comprises user interface manager means (12) that stores, identifies and transmits parameters associated with a given user's bandwidth allocation request, characterised in that the bandwidth of each fragment is selected as a function of the switching granularity x, and by bandwidth allocation control means (BAF), coupled to a first end of said first data path and to said user interface manager means, for controlling allocation of data bandwidth to one or more of the m x n fragments of the first data path bandwidth comprising: (a) bit map means (NP, 170) comprising m x n bit locations, each bit location corresponding to a different fragment on said first data path wherein each one of said m x n bit locations is used for storing a binary bit which takes a first value for indicating that its corresponding fragment is available or a second value for indicating that its corresponding fragment is in use and unavailable; (b) allocation means for identifying available fragments on said first data path, in response to a particular data path user's request for bandwidth allocation, as specified by parameters received from said user interface manager means, wherein said allocation in accordance with any one of a plurality of predetermined rules, each of which define the bandwidth allocation **layout** request and any constraints.

(Dwg.2/5

Abstract (Equivalent): US 5051984 A

The bandwidth allocating method involves performing allocation at both ends of a path (e.g. T1 line, IML, etc.). The Bandwidth Allocation Facility (BAF) at each end of a given path allocates bandwidth in integer multiples of maximum switching system granularity. The BAF also supports the implementation of user requests for any one of a plurality of allocation and boundary rules. To minimise the probability of contention and out of a band signalling between the BAF pair associated with a given path, a front-to-back search mechanism is assigned for one BAF of the pair, while the other BAF uses a back-to-front search mechanism.

In this way, contention occurs only when a path's capacity nears exhaustion, while uneven loading (one side of the path versus the other) is accommodated. Further yet, methods are set forth which support rapid deallocation of bandwidth and status reporting. USE - For communication path in digital switching system. (9pp)

US 4965798 A

Bandwidth allocation is performed at both ends of a path (e.g. T1 line, IML, etc.) and may take place in either direction. The Bandwidth Allocation Facility (BAF) at each end of a given path allocates bandwidth in integer multiples of maximum switching system granularity.

The BAF also supports the implementation of user requests for any one of a plurality of allocation and boundary rules. To minimise the probability of contention and out of band signalling between the BAF pair associated with a given path, a front-to-back search mechanism is assigned for one BAF of the pair while the other BAF utilises a back-to-front search mechanism. In this way contention occurs only when a path's capacity nears exhaustion while uneven loading (one side of the path versus the other) is accommodated. USE - Allocation of bandwidth for point-to-point, serial, bidirectional communication paths in a digital switching system. (11pp)

Title Terms: FLEXIBLE; ALLOCATE; BANDWIDTH; POINT; POINT; SET; PREDEFINED; RULE; DEFAULT; ALLOCATE; RULE; EVENT; NO; ALLOCATE; RULE; SPECIFIED; USER

Derwent Class: W02

International Patent Class (Main): H04J-003/16; H04L-012/52

International Patent Class (Additional): H04L-011/16; H04L-012/00

File Segment: EPI

Manual Codes (EPI/S-X): W02-C03X; W02-K02B

File 9:Business & Industry(R) Jul/1994-2005/May 18
 (c) 2005 The Gale Group
 File 16:Gale Group PROMT(R) 1990-2005/May 18
 (c) 2005 The Gale Group
 File 47:Gale Group Magazine DB(TM) 1959-2005/May 19
 (c) 2005 The Gale group
 File 148:Gale Group Trade & Industry DB 1976-2005/May 19
 (c)2005 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 275:Gale Group Computer DB(TM) 1983-2005/May 19
 (c) 2005 The Gale Group
 File 570:Gale Group MARS(R) 1984-2005/May 19
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 File 621:Gale Group New Prod.Annou.(R) 1985-2005/May 19
 (c) 2005 The Gale Group
 File 636:Gale Group Newsletter DB(TM) 1987-2005/May 19
 (c) 2005 The Gale Group
 File 649:Gale Group Newswire ASAP(TM) 2005/May 11
 (c) 2005 The Gale Group
 ? ds

Set	Items	Description
S1	8220972	CAPABIL? OR CAPABLE? OR ABLE OR ABILIT?
S2	304036	S1(5N) (DEVICE? ? OR TERMINAL? ? OR COMPUTER? ? OR MICROCOM- PUT? OR MICROPROCESS? OR PC OR PCS OR WORKSTATION? OR WORK()S- TATION? ?)
S3	43247	S1(5N) (PROCESS?R? ? OR CPU OR CPUS OR PCU OR PCUS)
S4	2598255	QUERY? OR QUERIE? ? OR INTERROGAT? OR INQUIR? OR ENQUIR? OR REQUISITION? OR REQUEST? OR ELICIT?
S5	1343925	FORMAT OR FORMATS OR FORMATED OR FORMATING OR FORMATT? OR - REFORMAT? OR LAYOUT? OR LAY()OUT? ?
S6	1673188	REQUEST?
S7	64780	S6(3N) (DOCUMENT? ? OR WEBPAGE? OR PAGE? ? OR PUBLICATION? - OR FILE OR FILES OR REPORT? ? OR ARTICLE? ? OR TEXTFILE?)
S8	20846	S6(3N) (CONTENT? ? OR ECONTENT? ? OR OBJECT? ? OR TEXTDATA)
S9	26100	S6(3N) DATA
S10	3262	S2:S3(20N)S4
S11	170	S10(S)S5
S12	69	S11/1998:2005
S13	101	S11 NOT S12
S14	67	RD (unique items)
? t14/3,k/2,5,14,22,31,47,51-53		

14/3,K/2 (Item 1 from file: 16)
 DIALOG(R)File 16:Gale Group PROMT(R)
 (c) 2005 The Gale Group. All rts. reserv.

05236894 Supplier Number: 47984738 (USE FORMAT 7 FOR FULLTEXT)
**Spyglass Ships Prism 1.0 Dynamic Content Conversion Solution; Revolutionary
 Product Delivers Existing Web Content to Non-PC Devices**
 PR Newswire, p916CGTU004
 Sept 16, 1997
 Language: English Record Type: Fulltext
 Document Type: Newswire; Trade
 Word Count: 989

... client. Through a series of conversion routines, Spyglass Prism automatically optimizes Web content into a **format** that matches the **capabilities** of the **requesting device** and returns the appropriate content to that **requesting** client. The result is content which looks

better, and is therefore more useful, to the...

14/3,K/5 (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

04565323 Supplier Number: 46710345 (USE FORMAT 7 FOR FULLTEXT)
IMR delivers direct paper-to-CD storage management solution; new Scan2CD software simplifies document storage and enables content-sensitive access.

Business Wire, p9160124
Sept 16, 1996
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1160

... industry-leading access to stored information. Whether in a desktop environment or as a network **workstation**, the software's **query capabilities** locate any document in seconds simply by entering words or attached metadata the document is believed to contain. Built-in viewers for many popular applications and file **formats** immediately display pages that match the search criteria. IMR's built-in CD-SPAN library...

14/3,K/14 (Item 2 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2005 The Gale group. All rts. reserv.

04374083 SUPPLIER NUMBER: 17720254 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Breaker 1-9, do you copy?(Salutation Consortium releases Salutation Specification) (Technology Information) (Brief Article)
Humphry, Sara
PC Week, v12, n46, pN1(1)
Nov 20, 1995
DOCUMENT TYPE: Brief Article ISSN: 0740-1604 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 108 LINE COUNT: 00014

The Salutation Specification describes an API and a **capability** - exchange protocol that allows any **device**, application, or service to initiate or respond to a **query** about data **formats** and device characteristics. The initiating device can then adjust its interaction accordingly. For example, if...

14/3,K/22 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

09372988 SUPPLIER NUMBER: 19233411 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The role of intelligent agent software in the future of direct response.
Hoggdon, Paul N.
Direct Marketing, v59, n9, p10(8)
Jan, 1997
ISSN: 0012-3188 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 5431 LINE COUNT: 00427

... companies, it obtains the information needed and presents it back to the user in the **format** to which he is accustomed.

User Ability To Trust Intelligent Agents To Find And Purchase...

14/3,K/31 (Item 10 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

06803795 SUPPLIER NUMBER: 14342942 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Digital switch communicates in harsh substation environment. (RFL 9660
digital substation switch)**
Spain, Richard; Fodero, Kenneth; Hoffman, Gary
Electric Light & Power, v71, n8, p27(2)
August, 1993
ISSN: 0013-4120 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1135 LINE COUNT: 00090

... modem connection is made. The data format and flow control is
usually established by the **device interrogation** software. To be **able**
to communicate with multiple **devices** using any possible combination of
the variables. the data at each port is programmed.
This...

14/3,K/47 (Item 4 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

01510403
MICRO DECISIONWARE ANNOUNCES ENHANCEMENTS FOR PC/SQL-link.
NEWS RELEASE September, 1986 p. 11

... today announced major enhancements for PC/SQL- link.PC/SQL-link
provides the IBM compatible PC user with the **ability** to access DB2 and
SQL/DS databases, as well as, Teradata and Britton Lee database machines.
Creation of SQL **requests** on the PC using menus so that the user does not
have to learn the...

... requests submitted is maintained by PC/SQL-link Data transmitted from
the host is automatically **reformatted** for use with popular IC
applications Table and column descriptions for each unique PC user...

14/3,K/51 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01836837 SUPPLIER NUMBER: 17393165 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**The network is the office. (the SmartOffice Consortium's SmartOffice
Architecture specification for linking office machines) (Brief Article)**
LAN Magazine, v10, n8, p18(1)
August, 1995
DOCUMENT TYPE: Brief Article ISSN: 1069-5621 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 171 LINE COUNT: 00019

... working name of the association, is defining an interface that
enables conforming products to identify **device capabilities**. The
standard provides a consistent way to identify necessary data
transformation, **formatting** considerations, and service **requests** to set
up a session of interoperation. The specification is independent of

hardware platforms and...

14/3,K/52 (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01801499 SUPPLIER NUMBER: 17100656 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Windows questions and answers. (example of how to write a sound file to disk in multimedia programming) (Technical)
Bonneau, Paul
Windows-DOS Developer's Journal, v6, n6, p61(11)
June, 1995
DOCUMENT TYPE: Technical ISSN: 1059-2407 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 4636 LINE COUNT: 00542

... the buffer using the helper function ErrInitWft(). This function ensures there is at least one **device capable** of recording sound, then **queries** the **device** for its **capabilities**. In the WAVEINCAPS data structure, the bits of the dwFormats field describing the capabilities are ...

...finally, number of channels. Thus the first least significant 1 bit yields the lowest bandwidth **format** supported by the device. After finding which bit this is, ErrInitWft() fills in the PCMWAVEFORMAT...

14/3,K/53 (Item 4 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01606060 SUPPLIER NUMBER: 13999373 (USE FORMAT 7 OR 9 FOR FULL TEXT)
InfoPublisher Developer's Kit. (PageAhead Software's program development software) (Software Review) (Hands On) (Evaluation)
Schnapp, Marc
DBMS, v6, n8, p28(3)
July, 1993
DOCUMENT TYPE: Evaluation ISSN: 1041-5173 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1420 LINE COUNT: 00116

... found in word processors and desktop-publishing packages.
Rather than reinventing a print and text- **formatting** engine, InfoPublisher exploits the **capabilities** already built into word **processors** and desktop publishers. What distinguishes the product is its ability to **query** databases and to deliver input documents to popular word-processing and DTP packages.
While the...

File 696:DIALOG Telecom. Newsletters 1995-2005/May 18
(c) 2005 The Dialog Corp.
File 15:ABI/Inform(R) 1971-2005/May 19
(c) 2005 ProQuest Info&Learning
File 98:General Sci Abs/Full-Text 1984-2004/Dec
(c) 2005 The HW Wilson Co.
File 112:UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media
File 141:Reader's Guide 1983-2005/Dec
(c) 2005 The HW Wilson Co
File 484:Periodical Abs Plustext 1986-2005/May W3
(c) 2005 ProQuest
File 608:KR/T Bus.News. 1992-2005/May 19
(c)2005 Knight Ridder/Tribune Bus News
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
File 635:Business Dateline(R) 1985-2005/May 19
(c) 2005 ProQuest Info&Learning
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 369:New Scientist 1994-2005/Apr W2
(c) 2005 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
(c) 1999 AAAS
File 20:Dialog Global Reporter 1997-2005/May 19
(c) 2005 The Dialog Corp.
File 624:McGraw-Hill Publications 1985-2005/May 19
(c) 2005 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2005/May 18
(c) 2005 San Jose Mercury News
File 647:CMP Computer Fulltext 1988-2005/May W1
(c) 2005 CMP Media, LLC
File 674:Computer News Fulltext 1989-2005/May W3
(c) 2005 IDG Communications

Set	Items	Description
S1	7465599	CAPABIL? OR CAPABLE? OR ABLE OR ABILIT?
S2	149841	S1(5N) (DEVICE? ? OR TERMINAL? ? OR COMPUTER? ? OR MICROCOM- PUT? OR MICROPROCESS? OR PC OR PCS OR WORKSTATION? OR WORK()S- TATION? ?)
S3	19092	S1(5N) (PROCESS?R? ? OR CPU OR CPUS OR PCU OR PCUS)
S4	4246002	QUERY? OR QUERIE? ? OR INTERROGAT? OR INQUIR? OR ENQUIR? OR REQUISITION? OR REQUEST? OR ELICIT?
S5	877953	FORMAT OR FORMATS OR FORMATED OR FORMATING OR FORMATT? OR - REFORMAT? OR LAYOUT? OR LAY()OUT? ?
S6	1898889	REQUEST?
S7	54926	S6(3N) (DOCUMENT? ? OR WEBPAGE? OR PAGE? ? OR PUBLICATION? - OR FILE OR FILES OR REPORT? ? OR ARTICLE? ? OR TEXTFILE?)
S8	9702	S6(3N) (CONTENT? ? OR ECONTENT? ? OR OBJECT? ? OR TEXTDATA)
S9	15615	S6(3N) DATA
S10	5038	S2:S3(20N) S4
S11	68	S10(S) S5
S12	40	S11/1998:2005
S13	28	S11 NOT S12
S14	25	RD (unique items)

14/3,K/17 (Item 1 from file: 813)
DIALOG(R)File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

Spyglass Ships Prism 1.0 Dynamic Content Conversion Solution; Revolutionary Product Delivers Existing Web Content to Non-PC Devices

DATE: September 16, 1997 06:58 EDT WORD COUNT: 959

... client. Through a series of conversion routines, Spyglass Prism automatically optimizes Web content into a **format** that matches the **capabilities** of the **requesting device** and returns the appropriate content to that **requesting** client. The result is content which looks better, and is therefore more useful, to the...

14/3,K/18 (Item 2 from file: 813)
DIALOG(R)File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0164825 NY016
NEW AUTOMATIC CALL DISTRIBUTION (ACD) ENHANCEMENTS FOR THE IBX

DATE: May 3, 1989 09:04 E.T. WORD COUNT: 445

...and Deluxe package.

InteCom's Open Application Interface (OAI) option gives the IBX the added **ability** to communicate with an applications **processor** (AP) for further customization of administrative/management functions. OAI allows the AP to **request** ACD statistical information from the IBX so that the AP can process the information and present it in a user-defined **format**.

The ACD Feature Package supports Integrated Terminal Equipment (ITE) and Standard Telephone Equipment (STE) sets...
?

File 6:NTIS 1964-2005/May W2
(c) 2005 NTIS, Intl Cpyrght All Rights Res
File 2:INSPEC 1969-2005/May W2
(c) 2005 Institution of Electrical Engineers
File 8:Ei Compendex(R) 1970-2005/May W2
(c) 2005 Elsevier Eng. Info. Inc.
File 34:SciSearch(R) Cited Ref Sci 1990-2005/May W3
(c) 2005 Inst for Sci Info
File 35:Dissertation Abs Online 1861-2005/Apr
(c) 2005 ProQuest Info&Learning
File 65:Inside Conferences 1993-2005/May W3
(c) 2005 BLDSC all rts. reserv.
File 94:JICST-EPlus 1985-2005/Mar W4
(c) 2005 Japan Science and Tech Corp(JST)
File 95:TEME-Technology & Management 1989-2005/Apr W2
(c) 2005 FIZ TECHNIK
File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Apr
(c) 2005 The HW Wilson Co.
File 111:TGG Natl.Newspaper Index(SM) 1979-2005/May 18
(c) 2005 The Gale Group
File 144:Pascal 1973-2005/May W2
(c) 2005 INIST/CNRS
File 256:TecInfoSource 82-2005/Mar
(c) 2005 Info.Sources Inc
File 266:FEDRIP 2005/Jan
Comp & dist by NTIS, Intl Copyright All Rights Res
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
File 483:Newspaper Abs Daily 1986-2005/May 17
(c) 2005 ProQuest Info&Learning
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group
File 603:Newspaper Abstracts 1984-1988
(c) 2001 ProQuest Info&Learning

Set	Items	Description
S1.	2736923	CAPABIL? OR CAPABLE? OR ABLE OR ABILIT?
S2	67612	S1(5N) (DEVICE? ? OR TERMINAL? ? OR COMPUTER? ? OR MICROCOM- PUT? OR MICROPROCESS? OR PC OR PCS OR WORKSTATION? OR WORK()S- TATION? ?)
S3	7066	S1(5N) (PROCESS?R? ? OR CPU OR CPUS OR PCU OR PCUS)
S4	691623	QUERY? OR QUERIE? ? OR INTERROGAT? OR INQUIR? OR ENQUIR? OR REQUISITION? OR REQUEST? OR ELICIT?
S5	364711	FORMAT OR FORMATS OR FORMATED OR FORMATING OR FORMATT? OR - REFORMAT? OR LAYOUT? OR LAY()OUT? ?
S6	239549	REQUEST?
S7	6626	S6(3N) (DOCUMENT? ? OR WEBPAGE? OR PAGE? ? OR PUBLICATION? - OR FILE OR FILES OR REPORT? ? OR ARTICLE? ? OR TEXTFILE?)
S8	5491	S6(3N) (CONTENT? ? OR ECONTENT? ? OR OBJECT? ? OR TEXTDATA)
S9	5506	S6(3N) DATA
S10	1589	S2:S3 AND S4
S11	85	S5 AND S10
S12	34	S11/1998:2005
S13	51	S11 NOT S12
S14	48	RD (unique items)

14/7/7 (Item 7 from file: 6)
DIALOG(R)File 6:NTIS
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1602517 NTIS Accession Number: AD-A238 830/4

Graphic Information Presentation System (GIPSY) Users Manual

Muenzen, J. L.

Joint Data Systems Support Center, Washington, DC.

Corp. Source Codes: 086818000; 414437

Report No.: DCA/JDSSC-UM-7-91

1 Feb 91 426p

Languages: English

Journal Announcement: GRAI9123

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A19/MF A04

Country of Publication: United States

The Graphic Information Presentation System (GIPSY) is a general purpose graphics and information display capability. It combines the tools of data retrieval, information processing, **formatted** reports, tabular, graphic, and geographic display into a single integrated on line interactive system. It is a file and data independent system that is driven by a high level user oriented language. The graphic display **capabilities** were implemented using a **device** independent approach which allows the single integrated system to support multiple dissimilar devices. GIPSY automatically reconfigures itself to the **capabilities** and unique requirements of the **terminal** to which the user is logged onto. The graphic display capabilities were the primary basis for the initiation of this system. However, GIPSY very effectively serves as an information handling system to connect the user's data base to a large set of on line interactive **query** and display capabilities. This document provides a mid-level tutorial description of the capabilities of GIPSY.

14/7/22 (Item 3 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

4806152 INSPEC Abstract Number: B9412-6210L-061, C9412-6150N-041

Title: The CLIO solution

Author(s): Blokkum, D.

Author Affiliation: IBM EPAC, Norway

p.385-93

Publisher: SHARE Europe, Carouge/Geneva, Switzerland

Publication Date: 1993 Country of Publication: Switzerland xxi+1002 pp.

Conference Title: Proceedings SHARE Europe Anniversary Meeting

Conference Date: 25-28 Oct. 1993 Conference Location: The Hague, Netherlands

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: CLIO is a software toolkit, offering network transparent tape access and interfaces for distributed processing. CLIO grew from a simple desire to offload the mainframe workload with a better price/performance machine like the RISC System/6000. The data needed to be transparent and the same code that ran on the mainframe needed to be **able** to ran on the **workstation**. The data needed to have an efficient and fast transport mechanism between the mainframe and the workstation. The author presents a CLIO configuration. Workstations are connected together with a 220 Mbit fiber optic link (SOCC). One or several RISC Systems/6000 connected to the mainframe with either a 9/17 Mbyte fiber optic ESCON, or a 4.5 Mbyte Parallel Channel Adapter (370-PCA) connection. The RISC machines **request** data from the tape and disk server. The servers convert the calls to the

appropriate **format** for MVS, VM or AIX/ESA. CLIO assures that the data is in the right **format**, and delivers it with maximum speed, low overhead and minimal latency. TCP/IP is required during startup of the slaves. (0 Refs)

Subfile: B C

? t14/7/23

14/7/23 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

04148781 INSPEC Abstract Number: B9206-6210-017, C9206-5620-040

Title: Message handling systems

Author(s): Berkes, J.

Journal: Tudomanyos es Muszaki Tajekoztatás vol.39, no.1 p.38-41

Publication Date: Jan. 1992 Country of Publication: Hungary

CODEN: TMTAAG ISSN: 0041-3917

Language: Hungarian Document Type: Journal Paper (JP)

Treatment: General, Review (G)

Abstract: One aim is to utilise existing rented communication apparatus, particularly for telex, fax and professional PCs with modems, to create a message exchange **capability** between various **computer**-based systems by code, **format** or protocol conversions, to integrate them into as many user systems as possible. The X.400 system is user-oriented via the user agent, then the message transfer agent, and in the reverse order for receipt of messages. Many PC-based systems incorporate the user agent function. They can interlink telex, fax, teletex, videotex, microcomputers, minicomputers, mainframes, private and public message transfer systems, and unconventional letter box systems. Some uses of MHS (message handling systems) are discussed: multi-addressing, file exchanges, data collection, database **enquiries** and commercial business activities without paper (electronic data interchange). MHS takes on the message exchange overheads. The author discusses the CCITT standard for X.500 systems regarding directories and their organisation. Help with addressing difficulties is given. (0 Refs)

Subfile: B C

File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)
 (c) 2005 JPO & JAPIO
 File 350:Derwent WPIX 1963-2005/UD,UM &UP=200531
 (c) 2005 Thomson Derwent
 File 348:EUROPEAN PATENTS 1978-2005/May W02
 (c) 2005 European Patent Office
 File 349:PCT FULLTEXT 1979-2005/UB=20050512,UT=20050505
 (c) 2005 WIPO/Univentio
 File 324:German Patents Fulltext 1967-200519
 (c) 2005 Univention

Set	Items	Description
S1	573	AU=HILL W?
S2	2	AU=EARNSHAW S?
S3	144	AU=DANIELS S?
S4	54	AU=MELTZER D?
S5	770	S1:S4
S6	410690	FORMAT OR FORMATS OR FORMATED OR FORMATING OR FORMATT? OR - REFORMAT? OR LAYOUT? OR LAY()OUT? ?
S7	23854	S6(7N) (OUTPUT? OR OUT() (PUT???? ? OR PUTT??? ?))
S8	10813	S6(7N) (CAPABIL? OR CAPABL? OR ABILIT? OR ABLE)
S9	8	S5 AND S7:S8

9/9/1 (Item 1 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
 (c) 2005 Thomson Derwent. All rts. reserv.

013009853 **Image available**
 WPI Acc No: 2000-181705/200016
 XRPX Acc No: N00-134122

**Document formatting in a client-server computer system for dynamically
 adapting the layout of a document to an output device**

Patent Assignee: MICROSOFT CORP (MICT)
 Inventor: DANIELS S J ; EARNSHAW S D ; HILL W ; MELTZER D M
 Number of Countries: 001 Number of Patents: 001
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6023714	A	20000208	US 97847427	A	19970424	200016 B

Priority Applications (No Type Date): US 97847427 A 19970424

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6023714	A	15	G06F-017/21	

Abstract (Basic): US 6023714 A

NOVELTY - The method involves receiving a document (210) with a layout generator (212), which is operative for selecting one from several style sheets (214a-214n) based on the capability of an output device (200), from a server (208). The selected style sheet is received from the server. The document for presentation to the **output** device is then **formatted** using the selected style sheet.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a computer-readable medium storing computer-executable instructions for **formatting** a document for an **output** device.

USE - For dynamically adapting the **layout** of a document to an **output** device in a client-server computer system e.g. Internet. Adaptable for the layout of an hypertext mark-up language (HTML) document to fully utilize the capabilities of a display device.

ADVANTAGE - Used to fully utilize the capabilities and constraints of a particular output device e.g. display device. Can be practiced in

the context of an application program that runs on an operating system in conjunction with a personal computer or in combination with other program modules. Can be practice with other computer systems including handheld devices, multiprocessor systems, microprocessor-based or programmable consumer electronics, minicomputers, and mainframe computers.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram illustrating an exemplary network environment for the document formatting method.

Output device (200)
Server (208)
Document (210)
Layout generator (212)
Style sheets (214a-214n)
pp; 15 DwgNo 2/6

Title Terms: DOCUMENT; FORMAT; CLIENT; SERVE; COMPUTER; SYSTEM; DYNAMIC;
ADAPT; LAYOUT; DOCUMENT; OUTPUT; DEVICE

Derwent Class: T01

International Patent Class (Main): G06F-017/21

File Segment: EPI

Manual Codes (EPI/S-X): T01-J11A; T01-J11C1; T01-M02A1B

9/6/2 (Item 1 from file: 349)

01159689 **Image available**

DYNAMICAL INSTRUMENT FOR MACHINING

INSTRUMENT DYNAMIQUE D'USINAGE

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11971

Publication Year: 2004

9/6/3 (Item 2 from file: 349)

00954833 **Image available**

**SYSTEM AND METHOD INCLUDING DISTRIBUTED INSTRUCTION BUFFERS HOLDING A
SECOND INSTRUCTION FORM**

**SYSTEME ET PROCEDE A TAMPONS D'INSTRUCTIONS DISTRIBUES CONTENANT UNE
SECONDE FORME D'INSTRUCTIONS**

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 4381

Publication Year: 2002

9/6/4 (Item 3 from file: 349)

00916455 **Image available**

INSPECTION AND DISPOSITION OF MILL ROLLS

PROCEDE DE GESTION DE DEFAUTS DE LAMINOIRS

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8763

Publication Year: 2002

9/5/5 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00809360 **Image available**

DOCUMENT FORMATTING BASED ON OPTIMIZED FORMATTING VALUES

FORMATAGE DE DOCUMENT BASE SUR DES VALEURS DE FORMATAGE OPTIMISEES

Patent Applicant/Assignee:

MICROSOFT CORPORATION, One Microsoft Way, Redmond, WA 98052, US, US
(Residence), US (Nationality)

Inventor(s):

BEEZER John L, 17525 N.E. 40th Street, #B205, Redmond, WA 98052, US,
DUGGAN Michael J, 9903 NE 119th Court, Apt. E, Kirkland, WA 98034, US,
DUNIETZ Jerry J, 1126 24th Avenue East, Seattle, WA 98112, US,
HILL William, 5401 Lake Langlois Road, Carnation, WA 98014, US,
SILVER David M, 18713 NE 51st Court, Redmond, WA 98052, US,
WADE Geraldine G, 16132 NE 109th Street, Redmond, WA 98052, US

Legal Representative:

MORENO Christopher P (et al) (agent), Banner & Witcoff, Ltd., Suite 3000,
Ten South Wacker Drive, Chicago, IL 60606-7407, US,

Patent and Priority Information (Country, Number, Date):

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Application: WO 2000US33234 20001207 (PCT/WO US0033234)
Priority Application: US 99456150 19991207

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/21

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6073

English Abstract

At least a portion of a plurality of formatting variables associated with an electronic document are modified based in part upon optimized formatting values. A user may specify values for one or more user-modifiable formatting variables. Based on the user data thus specified, at least a portion of the plurality of formatting variables are modified according to corresponding optimized formatting values. The electronic document is then formatted in accordance with the modified formatting variables and provided for display. The user-modifiable variables may comprise a font reference variable and/or a display form factor variable. In this manner, the present invention optimizes readability of electronic documents while still accommodating user preferences for displaying such documents.

French Abstract

Au moins un certain nombre de variables de formatage associees a un

document electronique sont modifiees en partie sur la base de valeurs de formatage optimisees. Un utilisateur peut specifier des valeurs relatives a une ou plusieurs valeurs de formatage modifiables par l'utilisateur. Sur la base des donnees d'utilisateur ainsi specifiees, au moins une partie de la pluralite de variables de formatage est modifiee en fonction des valeurs de formatage optimisees correspondantes. Le document electronique est ensuite formate sur la base des variables de formatage modifiees et envoye a un affichage. Les variables modifiables par l'utilisateur peuvent comprendre une variable de reference de police de caracteres et/ou une variable de facteur de dimension d'affichage. De cette maniere, la presente invention optimise la lisibilite de documents electroniques tout en continuant a accepter les preferences de l'utilisateur relatives a l'affichage de ces memes documents.

Legal Status (Type, Date, Text)

Publication 20010614 A1 With international search report.

Examination 20011011 Request for preliminary examination prior to end of 19th month from priority date

9/6/6 (Item 5 from file: 349)

00441525 **Image available**

A FLOW ANALYSIS SYSTEM AND METHOD

SYSTEME ET PROCEDE POUR ANALYSE DE FLUX

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11636

Publication Year: 1998

9/6/7 (Item 1 from file: 324)

0002242966

X-RAY COPIERS

SCHIRMBILDKOPIERER

Publication Language: German

Fulltext Availability:

Description (English machine translation)

Claims (English machine translation)

Description (German)

Claims (German)

Fulltext Word Count (English): 1681

Fulltext Word Count (German) : 1402

Fulltext Word Count (Both) : 3083

Publication Year: 1986

9/6/8 (Item 2 from file: 324)

0002041229

ORDER AND PROCEDURES ZUM TAXES OF THE REACTIVITY OF A NUCLEAR REACTOR, ESPECIALLY A SIEDEWASSERREAKTORS,

ANORDNUNG UND VERFAHREN ZUM STEuern DER REAKTIVITAET EINES KERNREAKTORS, INSBESONDERE EINES SIEDEWASSERREAKTORS

Publication Language: German

Fulltext Availability:

Description (English machine translation)

Claims (English machine translation)

Description (German)

Claims (German)

Fulltext Word Count (English): 11824

Fulltext Word Count (German) : 9396
Fulltext Word Count (Both) : 21220
Publication Year: 1984
?

1

10/635,929 (Similar case)
most relevant
search results
are attached

2

TRANSMITTER-RECEIVER FOR ELECTRONIC MAIL THAT PROVIDES CONVENIENCE TO A USER RECEIVING MAIL SERVICES FROM VARIOUS MAIL SERVICE PROVIDERS AT DIFFERENT TERMINALS AND DIFFERENT PLACES

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a transmitter-receiver for electronic mail system, and in particular to a transmitter-receiver, which can provide convenience when a user receives services from various mail service providers at different terminals and at different places.

2. Description of the Related Art

In recent years, possibilities have generally increased for individual users to receive electronic mail services from a plurality of mail service providers through personal computer communication, Internet, etc. With rapid propagation of personal computers and portable information terminals, types of terminals to receive electronic mail (hereinafter simply referred as "mail") and places to receive the mail are now much more diversified than before depending on individual users or situations.

However, in case a user receives a plurality of mail services, mail must be received through a different procedure for each service, and this causes much inconvenience to the user. Further, in case the same mail is distributed to the user via a plurality of services, each time the user utilizes, any of these services, the user is compelled to read the same mail, and this is also inconvenient to the user.

In case the mail is read at a terminal with relatively low display capability such as a portable information terminal, content of some of the mails may not be correctly displayed or the mail may be deleted from a spool, which serves as a storage unit to retain the mail, although the user has not yet read the mail.

Also, it often happens that there is no function to notify the arrival of the mail to a user which is not connected to a mail system, and it is necessary for the user to connect to the mail system regularly, or that the user cannot receive notice of arrival because the notice can only be given through a single communication method although there is a function to notify arrival of the mail, or that a mail with lower importance may also be notified and this results in higher communication cost.

SUMMARY OF THE INVENTION

To solve the above problems, it is an object of the present invention to provide a transmitter-receiver for electronic mail system, by which mails from a plurality of mail service providers are offered as a single service in appearance and a user can utilize electronic mail without being conscious of the service providers.

It is another object of the present invention to provide a transmitter-receiver for electronic mail system, by which content of the mail is converted depending on a terminal which the user utilizes and information can be sent to the user in an optimal form.

It is still another object of the present invention to provide a transmitter-receiver for electronic mail system, in which arrival of the mail is notified to the user through various communication channels depending on the importance of the mail and the notice of the arrival of the mail can be given at high reliability and at reasonable communication cost.

In the transmitter-receiver for electronic mail system according to the present invention, a plurality of mail spools are regarded and operated as a single spool by the use of a spool integration unit and the user can utilize the mail without being conscious of the service providers.

Also, the transmitter-receiver for electronic mail system according to the present invention comprises a terminal response unit for receiving communication of a user terminal and acquiring capability of the user terminal and a data form converting unit for converting content of the mail to various forms, whereby the content of the mail is converted depending on the terminal which the user utilizes and information can be transmitted in an optimal form.

Further, the transmitter-receiver for electronic mail system according to the present invention comprises, a mail urgency acquiring unit for checking urgency of the mail in a mail spool, a mail arrival notifying unit for notifying arrival of mail to the user based on urgency of the mail, and a position information control unit for searching and controlling a place where the user is currently present, so that mode of communication is selected according to the importance of the mail and position information of the user, and arrival of the mail is notified, thus providing notice of arrival of the mail with high reliability and at optimal communication cost.

BRIEF DESCRIPTION OF THE DRAWINGS

These objects and features of the present invention will become more readily apparent from the following detailed description of the preferred embodiments taken in conjunction with the accompanying drawings in which:

FIG. 1 is a system block diagram of an embodiment of the present invention;

FIG. 2 represents a block diagram of a terminal response unit in the embodiment of the present invention;

FIG. 3 shows an example of a terminal capability table in the embodiment of the present invention;

FIG. 4 is a block diagram of a spool integration unit in the embodiment of the present invention;

FIG. 5 shows an example of a user control table in the embodiment of the present invention;

FIG. 6 shows an example of a mail summary information table in the embodiment of the present invention;

FIG. 7 shows an example of a mail content table in the embodiment of the present invention;

FIG. 8 is a flow chart of processing procedure in case a mail is read from a terminal in the embodiment of the present invention;

FIG. 9 is an example of a correspondence table of mail urgency and transmitting method in the embodiment of the present invention; and

FIG. 10 is an example of a user position information in the embodiment of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

In the following, description will be given of an embodiment of the present invention referring to the attached drawings.

FIG. 1 is a block diagram of system configuration of an embodiment of the present invention. In FIG. 1, the system comprises a spool integration unit 101 for integrating a plurality of spools serving as a plurality of storage means and for making it possible to have access to the plurality of

spools by regarding the plurality of spools as a single spool, a data form converting unit 102 for converting various data such as text, image, etc., included in the mail to data of different forms, a terminal response unit 103 for receiving connection from a terminal which the user utilizes, for acquiring user validation and terminal capability and for transmitting the mail to the terminal, a mail the user of arrival notifying unit 104 for notifying arrival of the mail, a mail urgency acquiring unit 105 for checking urgency of the mail in a mail spool, a communication mode selecting unit 106 for selecting which communication channel should be used to notify arrival of the mail to the user, a position information control unit 107 for controlling information of communication channel to which the user can have access, and a mail spool group 108 connected by various types of communication channels by a known method of access and having mail spools by a plurality of mail service providers, whereby the system is connected to a user terminal group 110 having various terminals which the user can utilize via a communication channel network 109 consisting of various types of communication channels, which include wired or wireless lines. Each of the units 101 to 107 of the present system can be implemented by CPU, memory, interface, etc.

First, description will be given of a case where the user acquires a mail summary through a certain terminal. Using a terminal readily available, the user tries to connect to the system. The terminal is connected to the terminal response unit 103 via a type of communication channel of the communication channel network 109.

FIG. 2 is a block diagram of a terminal response unit 103 of the present embodiment. In FIG. 2, the terminal response unit 103 comprises a terminal response control unit 201 for controlling its operation and a terminal capability storage unit 202 for retaining capability of the terminal during communication.

To the terminal which seeks connection, the terminal response control unit 201 checks validation and specifies the user. Further, by a protocol already determined, it inquires capability of the terminal and stores the information of capability thus obtained at the terminal capability storage unit 202.

The methods to acquire terminal capability include a method to make inquiries on function, which the terminal response control unit 201 requires for each communication and a method to refer to a correspondence table of terminal name and capability, which is retained by the terminal response control unit 201 in advance by sending a terminal name from the terminal.

FIG. 3 is an example of terminal capability stored at the terminal capability storage unit 202 in the present embodiment. In this example, it is indicated that the terminal has a capability to receive and display a text of 30 KB or less and also a capability to receive and display an image of up to 320x200 pixels in binary.

When the user inputs a command to indicate a summary of mails, the terminal response control unit 201 sends user information and a command to display the mail summary to the spool integration unit 101.

FIG. 4 is a block diagram of the spool integration unit 101 in the present embodiment. In FIG. 4, the spool integration unit 101 comprises a spool communication control unit 401 for performing communication with a plurality of spools, a command converting unit 402 for converting a command to a single spool to a command to a plurality of spools, a mail operation response unit 403 for receiving a command to spool and for returning the result, a user control table 404 for

storing the spool which the user utilizes and information necessary for the utilization, and a conversion result storage unit 405 for storing the result of conversion of the command converting unit 402 for the subsequent operation.

The command from the terminal response unit 103 is received by the mail operation response unit 403, and it is sent to the command converting unit 402. The command converting unit 402 refers to the user control table 404 and converts the command to a command group to a plurality of spools.

FIG. 5 shows an example of the user control table 404 of the present embodiment. In the user control table 404, a method to have access to the spool which the user utilizes and information necessary for such access are registered in advance. In case of a summary display command, the command converting unit 402 converts the mail summary display command to a summary display command to each spool registered.

The converted command is sent to each spool via the spool communication control unit 401. The summary information obtained from each spool is collected at the command converting unit 402 from the spool communication control unit 401.

FIG. 6 is an example of a summary information thus obtained. In the present system, a mail number represents a number used to specify a specific mail, a spool number is a number to indicate a spool where the mail is present, an intra-spool ID is an ID to gain access to the mail, and a mail ID is a unique identifier to be added to the mail on the mail transmitting side. The information of FIG. 6 is recorded on the conversion result retaining unit 405 to process the subsequent operation command from the user.

The mail number exempting the duplication of FIG. 6 and the title of the mail used for summary display of the mail are sent to the terminal response unit 103 via the mail operation response unit 403. The terminal response unit 103 sends the list to the terminal via the communication channel network 109 and completes processing of the mail summary display command.

By the above procedure, even in case the user receives a plurality of mail services, the user can utilize the mails by simple operation without being conscious of a method to utilize each of the services.

Next, description will be given on operation in case the user gains access from a certain terminal and reads a mail and deletes this mail from spool. To simplify the explanation, it is supposed that the user has already received a summary of the mail by said mail summary display command. FIG. 8 is a flow chart of operation procedure and indicates operation in case major portion of the spool integration unit 101 of FIG. 4 is implemented with CPU. First, when it is confirmed that the spool integration unit 101 is connected to the terminal via the terminal response unit 103 (Step S1), validation and designation of the user are performed as described above (Step S2). Then, the capability of the terminal is acquired and retained (Step S3).

The user selects a mail which the user wants to read from the mail summary and issues a reading command to the mail. Here, the reading command includes the mail number. The reading command is sent to the terminal response unit 103 via the communication channel network 109. The terminal response unit 103 sends the reading command to the spool integration unit 101.

Here, the mail operation response unit 403 sends the reading command to the command converting unit 402. Upon receipt of the mail reading command, the command

converting unit 402 judges in which spool the mail specified for reading is present based on the information of FIG. 6 recorded in the conversion result retaining unit 405 (Steps S4 and S5) and converts it to a mail reading command to this spool (Step S6). In case the mail specified for reading is a duplicated mail where a plurality of spools are present, it is converted to a reading command to one of these spools (Step S6).

After the conversion, the command is sent to the spool via the spool communication control unit 401 (Step S7), and the result of reading is sent back to the terminal response unit 103 via the mail operation response unit 403 (Step S8).

Here, the terminal response unit 103 performs conversion of mail content when necessary. FIG. 7 is an example of a table, which gives content of the mail used by the terminal response unit 103. The terminal response unit 103 refers to the table of FIG. 7 and the capability of FIG. 3. If it is judged that the capability of the terminal is not sufficient to display the mail (Step S9), the content of the mail is processed using the data form converting unit 102, and it is converted to information amount and/or information form to match the capability of the terminal (Step S10).

In the present example, the length of the text is over 30 KB of receiving capability, and it is cut down to the length of 30 KB. Because the terminal cannot display moving picture, a part of the moving picture is converted to an image of 320×200 pixels in binary by the data form converting unit 102 (Step S10).

For example, of 100 frames, 4 frames are converted to a binary image of 320×200 pixels. In this case, if information of the original mail is impaired due to conversion of information amount or information form as in the cut-down of text or in the conversion of moving picture to still picture, the terminal response unit 103 puts an information defect flag to the table of FIG. 7 (Step S10). As an example of conversion which does not impair information, there is a case where the entire text is converted as an image in order to transmit content of the text to a terminal where only the image can be displayed.

The terminal response unit 103 sends the mail thus converted to the user terminal via the communication channel network 109 (Step S11). In this case, with regard to the mail with the information defect flag, its information is also sent to the user terminal, and it is notified that all of the information of the received mail has not been read. For example, the terminal adds a description such as "there may be the information lost" to the title of the mail.

In case the content of the mail could be normally transmitted to user terminal (Step S12), the terminal response unit 103 starts to delete the mail. First, the table of FIG. 7 is referred. If there is an information defect flag, no deletion is performed (Step S13). If there is no information defect flag, FIG. 6 is referred, and a deletion instruction is generated to all of the spools where the mail is present, and it is sent to the spool group via the spool communication control unit 401 (Step S14).

By the above procedure, the user can read the mail in a form matching the capability of the terminal which the user currently utilizes. In case the terminal utilized by the user cannot receive all of the content of the mail, the mail is not deleted, and the user can read the perfect mail content at a terminal having higher capability later.

Because all of the mails, which are identical with each other and arrive at a plurality of spools which the user utilizes, are deleted at the time when the user receives the perfect content of the mail, and this eliminates inconveniences that the same mail is read by many times.

Next, description will be given on a case where arrival of the mail is notified to a user. The mail arrival notifying unit 104 judges whether a mail is present or not, of which the arrival should be notified to the user, at a given time interval.

The mail arrival notifying unit 104 inquires the mail urgency acquiring unit 105 whether a mail with urgency to notify the arrival has arrived or not. The mail urgency acquiring unit 105 acquires the mail summary by sending a mail summary command to the spool integration unit 101.

FIG. 9 represents a correspondence table of mail urgency and transmitting method of the mail to a certain user as used in the mail urgency acquiring unit 105 of the present embodiment. From this table and the mail summary acquired, a mail is extracted, which requires arrival notification, and a list including a set of mail number and transmitting method and information such as the title necessary for arrival notification is sent back to the mail arrival notifying unit 104.

The mail arrival notifying unit 104 extracts only the transmitting method from this list and sends it to the communication mode selecting unit 106.

FIG. 10 shows an example of position information which the position information control unit 107 of the present embodiment has, and it includes communication method to a certain user and information of a position where it is estimated that the user has been present recently among the places where communication can be utilized. For example, in PHS telephone network, this table can be prepared based on a position registration information of a PHS terminal which the user has. The symbol "-" in the registration position column indicates that it is a communication method where it is not possible to specify at which position the user is present as in the case of a normal portable telephone set.

The communication mode selecting unit 106 approximately calculates the cost in case each communication channel is used according to the position information and sends back the list of transmitting methods sent from the mail arrival notifying unit 104 to the mail arrival notifying unit 104 by re-arranging them in the order from the lower cost.

In the communication mode selecting unit 106, transmitting method may be selected by considering reliability and high speed property of each transmitting method. Based on the list of the re-arranged transmitting methods, the mail arrival notifying unit 104 notifies the arrival of the mail to the user via the communication channel network 109.

By the above procedure, it is possible to notify only the information relating to an important mail, which deserves to notify to the user, to the user via an optimal channel. As described above, it is possible according to the present invention to provide an electronic mail system, which the user can utilize without being conscious of the service providers because the mails by a plurality of mail service providers are offered as a single service in appearance.

By converting the content of the mail depending upon the terminal which the user utilizes, it is possible to offer an electronic mail system, by which the information can be sent to the user in an optimal mode. Also, it is possible to offer an electronic mail system which the user can utilize at a reasonable communication cost because arrival notification to the user can be given via an optimal communication channel depending on importance of each mail.

What is claimed is:

1. A transmitter-receiver for transmitting and receiving mails to and from a user terminal by an electronic mail system, comprising:

a plurality of mail spools for retaining mails transmitted from said user terminal, each of said mail spools having a spool number,

wherein each mail in said mail spools is managed in accordance with said spool number and a mail number assigned to said mails; and

a spool integration unit for integrating said plurality of mail spools and for making it possible to gain access to each of said mail by regarding said plurality of mail spools as a single spool,

said spool integration unit including:

means for determining, among said plurality of mail spools, any mail spools where a mail designated to be read out is stored,

means for converting a reading command for reading out a mail from a single spool into a reading command for reading out a mail from each of said spools which have been determined by said means for determining,

further means for determining whether or not plural mails retained in said plurality of mail spools have a same mail ID given by a transmitter, and

means for assigning the same mail number to plural identical mails having the same mail ID.

2. A transmitter-receiver according to claim 1, wherein said spool integration unit comprises further means for converting the reading command to a reading command for reading out a mail from only one of the plurality of spools which have been determined by said means for determining in case two or more spools where mails designated for reading are present.

3. A transmitter-receiver according to claim 1, further comprising a position information control unit having information relating to positions and communication channels accessible by the user; and

communication mode selecting means for selecting which communication channel the user should use for communication based on the information from the position information control unit to provide control information for a communication channel which the user can access by recording a place where the user having said user terminal is currently present.

4 (New). A terminal to be connected to an apparatus on a wired or wireless communication path network, said terminal being arranged to transmit to said apparatus information related to capability of said terminal itself.

5 (New). A terminal according to claim 4, wherein said terminal is arranged to receive from said apparatus data converted in a form matching said capability.

6 (New). A terminal according to claim 5, wherein said terminal is arranged to receive information related to impairment of information indicative of information impairment which occurs in said data to be received during data conversion.

7 (New). An information processing apparatus comprising:
a receiving section for receiving information from a terminal connected thereto; and
a terminal responsive section responsive to said information received by said receiving section for obtaining information indicative of capability of said terminal.

8 (New). An information processing apparatus according to claim 7, further comprising a data form converting unit for

converting a format of various data into another format, said data form converting unit being arranged to perform conversion to convert said data in a form matching said capability.

9 (New). An information processing apparatus according to claim 8, wherein said terminal responsive section is arranged to transmit conversion data obtained by said data form converting unit to said terminal.

10 (New). An information processing apparatus according to claim 8, wherein said terminal responsive section is arranged to refer to said capability information and to information in a table, in which contents of data are given, and wherein said terminal responsive section converts said contents of said data, using said data form converting unit, into data in a form matching said capability.

11 (New). An information processing apparatus according to claim 9, wherein said terminal responsive section is arranged to refer to said capability information and to information in a table, in which contents of data are given, and wherein said terminal responsive section converts said contents of said data, using said data form converting unit, into those in a form matching said capability.

12 (New). An information processing apparatus according to claim 10, further comprising means for adding a flag indicative of impairment of information when impairment occurs in original information during data conversion.

13 (New). An information processing apparatus according to claim 11, further comprising means for adding a flag indicative of impairment of information when impairment occurs in original information during data conversion.

14 (New). An information processing apparatus according to claim 12, wherein said terminal responsive section is arranged to transmit converted data as well as information related to impairment of information to said terminal.

15 (New). An information processing apparatus according to claim 13, wherein said terminal responsive section is arranged to transmit converted data as well as information related to impairment of information to said terminal.

21/9/24 (Item 24 from file: 350)

DIALOG(R) File 350:Derwent WPTX
(c) 2004 Thomson Derwent All Rts. Reserv.

010550068 **Image available**

WPI Acc No: 1996-04-021/199605

XRPX Acc No: N96-039512

Data converter for document production appts, word processor - has
multiple data conversion units which convert data in format suitable
to corresponding processor which receives data

Patent Assignee: NEC CORP (NIDE)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7311766	A	19951128	JP 94131200	A	19940519	199605 B

Priority Applications (No Type Date): JP 94131200 A 19940519

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 7311766	A	5	G06F-017/21	

Abstract (Basic): JP 7311766 A

The converter has input units (111,121) to input the data to multiple processors. Output units (122,112) output the data from the processor. A data size discrimination unit (13) distinguishes the size of the data and sends them to **corresponding** processors like a database (20), an electronic spreadsheet (40) or a word processor (50) based on their sizes.

When the data is distinguished to be smaller than a standard size, a small size data conversion unit converts the data to a format that is suitable to a **corresponding** processor. When the data is bigger than a standard size, a big size data conversion unit (15) converts the data to a form at which suits to a **corresponding** processor.

ADVANTAGE - Improves quality of conversion.

Dwg.1/2

Title Terms: DATA; CONVERTER; DOCUMENT; PRODUCE; APPARATUS; WORD; PROCESSOR
; MULTIPLE; DATA; CONVERT; UNIT; CONVERT; DATA; FORMAT; SUIT; CORRESPOND
; PROCESSOR; RECEIVE; DATA

Derwent Class: T01

International Patent Class (Main): G06F-017/21

International Patent Class (Additional): G06F-005/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B4; T01-J11; T01-M02

19/7/13 (Item 3 from file: 2)
DIALOG(R) File 2:INSPEC
(c),2004 Institution of Electrical Engineers. All rts. reserv.

5009649 INSPEC Abstract Number: C9509-6130M-012

Title: Dynamic hypertext and knowledge agent systems for multimedia information networks

Author(s): Shibata, Y.; Katsumoto, M.

Author Affiliation: Dept. of Comput. Sci., Toyo Univ., Kawagoe, Japan

Conference Title: Fifth ACM Conference on Hypertext Proceedings p. 82-93

Publisher: ACM, New York, NY, USA

Publication Date: 1993 Country of Publication: USA xiii+294 pp.

ISBN: 0 89791 624 7

U.S. Copyright Clearance Center Code: 0 89791 624 7/93/0011.\$1.50

Conference Title: Proceedings of HYPERTEXT '93

Conference Sponsor: ACM

Conference Date: 14-18 Nov. 1993 Conference Location: Seattle, WA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: An intelligent human interface which can provide simple and flexible user access capabilities, based on the concept of dynamic hypertext system is introduced for multimedia information networks. In this dynamic hypertext system, metanodes and metalinks are defined as abstract nodes and flexible links, and organize a dynamic information space where a user can easily retrieve the desired information objects by asking the knowledge agent. The knowledge agent based on the knowledge base can decide the link from the current reference point to the suitable metanodes among the multimedia databases distributed over the network. The knowledge agent also performs media format conversion of the original information units to adjust to the user workstation capabilities and temporal synchronization among different media. In order to evaluate the functions of the suggested human interface, two applications are introduced and developed on the prototyped multimedia information network. (23 Refs)

Subfile: C

Copyright 1995, IEE

19/7/16 (Item 6 from file: 2)
DIALOG(R)File 2:INSPEC
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04148781 INSPEC Abstract Number: B9206-6210-017, C9206-5620-040

Title: Message handling systems

Author(s): Berkes, J.

Journal: Tudomanyos es Muszaki Tajekoztatás vol.39, no.1 p.38-41

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CODEN: TMTAAG ISSN: 0041-3917

Language: Hungarian Document Type: Journal Paper (JP)

Treatment: General, Review (G)

Abstract: One aim is to utilise existing rented communication apparatus, particularly for telex, fax and professional PCs with modems, to create a message exchange **capability** between various **computer**-based systems by code, **format** or protocol **conversions**, to integrate them into as many user systems as possible. The X.400 system is user-oriented via the user agent, then the message transfer agent, and in the reverse order for receipt of messages. Many PC-based systems incorporate the user agent function. They can interlink telex, fax, teletex, videotex, microcomputers, minicomputers, mainframes, private and public message transfer systems, and unconventional letter box systems. Some uses of MHS (message handling systems) are discussed: multi-addressing, file exchanges, data collection, database enquiries and commercial business activities without paper (electronic data interchange). MHS takes on the message exchange overheads. The author discusses the CCITT standard for X.500 systems regarding directories and their organisation. Help with addressing difficulties is given. (0 Refs)

Subfile: B C

19/3,K/66 (Item 5 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01597428 SUPPLIER NUMBER: 13744176 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Beyond addresses. (electronic mail, communications services enhancements
from AT&T, Motorola) (includes related article on General Magic's
Telescript addressing scheme)
RElease 1.0, v93, n4, p18(3)
April 23, 1993
ISSN: 1047-935X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1481 LINE COUNT: 00120

... her files as if she were in her home territory. MoNet would
compensate for different device and network capabilities and formats.
Of MoNetary value

MoNet is particularly good at translating message formats ,
storing messages and keeping track of activity. A MoNet-enabled network can
interchange messages with...

19/3,K/61 (Item 8 from file: 160)
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00985306

The fourth-generation PBX will integrate voice and data transmission capabilities into a single device , enabling it to act as a complete protocol and format translator , capable of linking almost any 2 computers, according to N Weber, Harris Corp's Digital Telephone Systems div.

Computerworld January 9, 1984 p. 57

The fourth-generation PBX will integrate voice and data transmission capabilities into a single device , enabling it to act as a complete protocol and format translator , capable of linking almost any 2 computers, according to N Weber, Harris Corp's Digital...

19/3,K/92 (Item 4 from file: 636)
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01082789 Supplier Number: 40703743 (USE FORMAT 7 FOR FULLTEXT)
PAC BELL READIES MULTI-FACETED E-MAIL
Enhanced Services Outlook, v2, n3, pN/A
March, 1989
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 475

... various types of computers and different electronic mail systems to
send messages without worrying about **adapting** the **format** to **fit** the
receiving **terminal** , Pac Bell said.

Since September, 800 students and faculty of Santa Clara University's
Master...